



RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 1)
PRIMARY 5

Name: _____ ()

Form Class: P5 _____ Banded Math Class: P5 _____

Date: 10 May 2011

Duration: 50 min

Your Score (Out of 100 marks)			
Your Score (Out of 40 marks)		Banded Math Class	Level
PAPER 1 (40%)	Highest Score		
	Average Score		
TOTAL (100%)		Highest	
		Average Score	
Parent's Signature			

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. **NO** calculator is allowed for this paper.

SECTION A (20 marks)

Questions **1** to **10** carry 1 mark each. Question **11** to **15** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

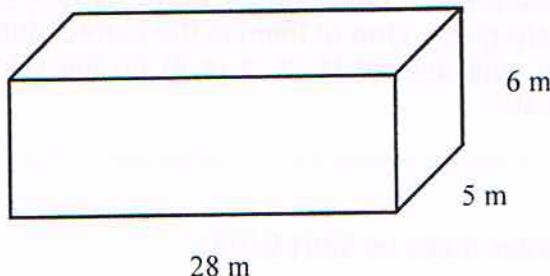
1. How many ten-dollar notes make up \$201 010?

- (1) 10
 - (2) 20
 - (3) 2 010
 - (4) 20 101
- ()

2. What is the product of 83×700 ?

- (1) 581
 - (2) 5 810
 - (3) 58 100
 - (4) 581 000
- ()

3. Find the volume of the cuboid shown below.



(1) 84 m^3

(2) 140 m^3

(3) 168 m^3

(4) 840 m^3

()

4. What is the missing number in the box?

$$3\frac{\square}{9} = 4\frac{2}{3}$$

(1) 6

(2) 8

(3) 14

(4) 15

()

5. Express $\frac{38}{4}$ as a mixed number.

(1) $3\frac{8}{4}$

(2) $8\frac{3}{4}$

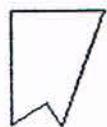
(3) $9\frac{1}{4}$

(4) $9\frac{1}{2}$

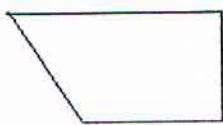
()

6. Which of the following figures cannot be tessellated?

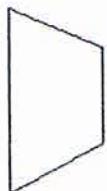
(1)



(2)



(3)



(4)



()

7. In 43.21, which digit is in the tenths place?

(1) 1

(2) 2

(3) 3

(4) 4

()

8. Express 0.025 as a fraction in its lowest term.

The answer is _____.

(1) $\frac{1}{4}$

(2) $\frac{1}{8}$

(3) $\frac{1}{25}$

(4) $\frac{1}{40}$

()

9. Which of the following is a common factor of 6 and 27?

(1) 27

(2) 2

(3) 3

(4) 54

()

10. Which one of the following when rounded off to the nearest thousand gives 190 000?

(1) 185 809

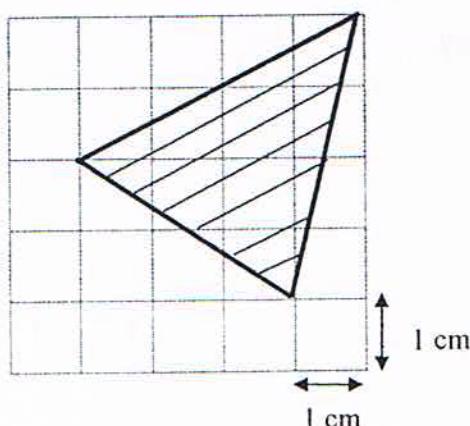
(2) 189 099

(3) 189 599

(4) 191 099

()

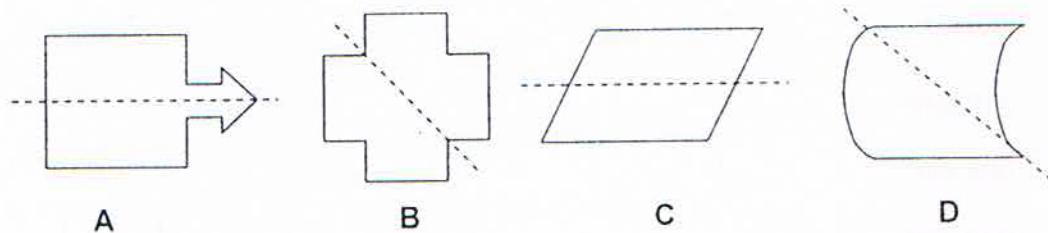
11. What is the area of the shaded triangle?



- (1) 6 cm^2
- (2) 7 cm^2
- (3) 8 cm^2
- (4) 9 cm^2

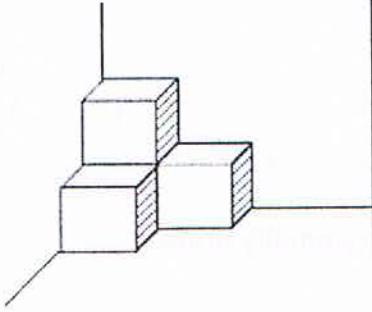
()

12. Which of the following figure(s) has/have the line of symmetry drawn correctly?



- (1) A and B only
- (2) B and D only
- (3) C and D only
- (4) A, B and C only

()

13. $\frac{1}{8}$ of Mary's money is equal to $\frac{7}{32}$ of Peter's money.
Find the ratio of Mary's money to Peter's money.
- (1) 1 : 7
(2) 1 : 4
(3) 4 : 7
(4) 7 : 4 ()
14. The solid below is made up of identical cubes. The total area of the shaded faces is 108 cm^2 . Find the volume of the solid.
- 
- (1) 36 cm^3
(2) 216 cm^3
(3) 864 cm^3
(4) 972 cm^3 ()
15. Sally spent $\frac{3}{7}$ of her money on books and \$58 on shoes.
If she had \$27 left, how much did the books cost?
- (1) \$14.50
(2) \$21.25
(3) \$43.50
(4) \$63.75 ()

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the numbers in descending order.

513 082, 231 058, 213 058, 513 820

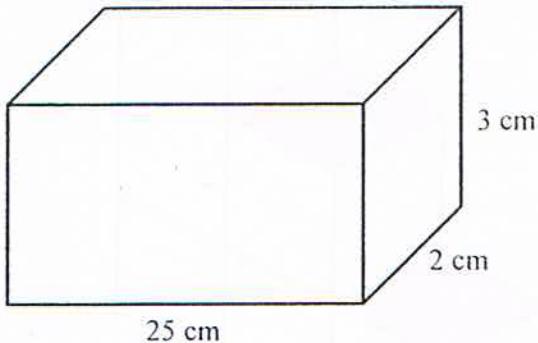
Ans: _____ , _____ , _____ , _____

17. Fill in the blank.

$$28.13 = 28 + \underline{\quad} + 0.03$$

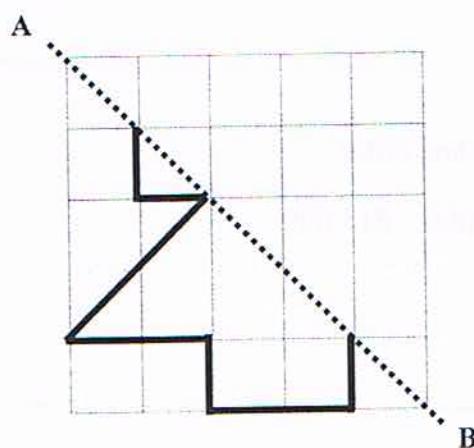
Ans: _____

18. Find the maximum number of 2-cm cubes that can be cut from the rectangular block given below.

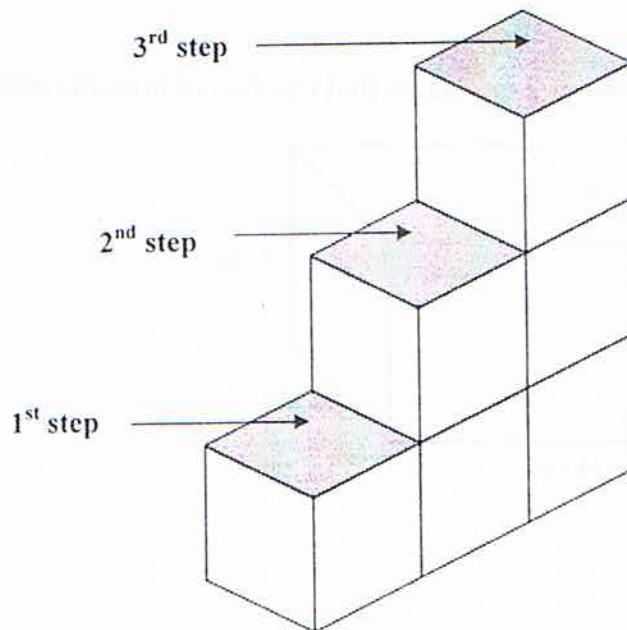


Ans: _____

19. Given that AB is a line of symmetry, complete the figure below.



20. The figure shown below is a staircase made up of 1-cm cubes. What is the volume of the total number of cubes up to the 10th step?



Ans: _____ cm³

21. Mrs Tan had a piece of cloth which was $7\frac{1}{4}$ m. She gave $3\frac{2}{5}$ m of the cloth to her sister. What was the length of the cloth left?

Ans: _____ m

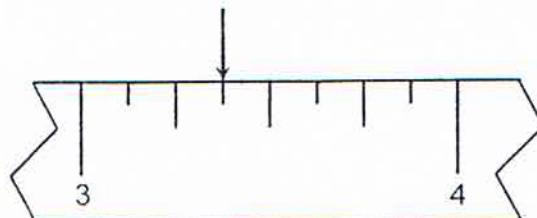
22. Express $4\frac{3}{8}$ as a decimal.

Ans: _____

23. The cost of 9 curry puffs is \$9.45. What is the cost of 1 curry puff?

Ans: \$ _____

24. What is the measurement indicated by the arrow below?



Ans: _____

25. Rod A is 1 m long. Rod B is 2 cm long.
Find the ratio of the length of Rod A to the length of Rod B.

Ans: _____

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

26. During a Speech Day rehearsal, 12 pupils were standing in a row at equal distances. The distance between the first and fourth pupil was 12m. What was the distance between the first and twelfth pupil?

Ans: _____ m

27. Solve the following.

$$(55 + 65) - 100 + 100 \div 5 \times 2 = \underline{\quad ? \quad}$$

Ans: _____

28. In the working below, A, B, C, D, E and F are 2-digit numbers. If A is 20, B is the 4th multiple of A, C is the 3rd multiple of 11, D is the volume of a cube with length of 4 units, and F is the 4th multiple of 11, what is E?

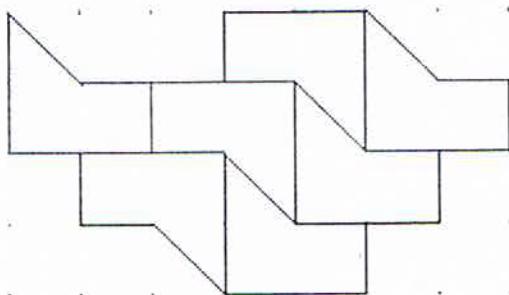
$$\begin{array}{r} & \boxed{A} & \boxed{B} \\ + & \boxed{C} & \boxed{D} \\ \hline & \boxed{E} & \boxed{F} \end{array}$$

Ans: _____

29. The capacity of a rectangular tank is 432 m^3 . The bottom of the tank measures 6 m by 3 m. It is then filled with some water. The height of the tank is 3 times the height of the water. What is the height of the water?

Ans: _____ m

30. Extend the tessellation by drawing 2 more unit shapes.



End of Paper-

☺ Please check your work carefully ☺

Setters: Mr Ho Kai Huat
Ms Lee Suan Khim
Mr Jonathan Teo



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Banded Math Class: P5 _____

Date: 10 May 2011

Duration: 1 h 40 min

Your Score (Out of 60 marks)		
	Banded Math Class	Level
Highest Score		
Average Score		

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.
Figures are not drawn to scale.
For questions which require units, give your answers in the units stated. (10 marks)

1. The breadth of a rectangle is $\frac{1}{3}$ of its length.
If the perimeter of the rectangle is 120cm, what is the area of the rectangle?

Ans: _____ cm² [2]

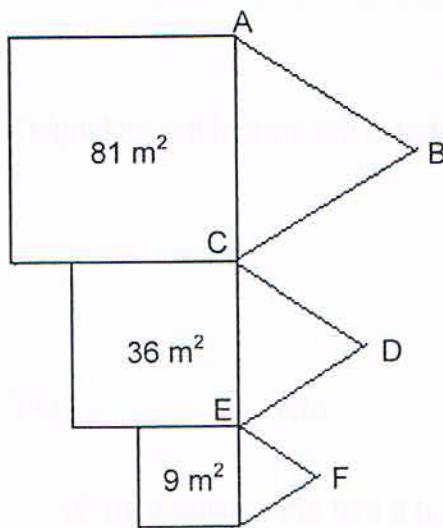
2. Write down all the common multiples of 3 and 8 that are smaller than 50.

Ans: _____ [2]

3. Nicole had \$63 at first. She spent \$28 of her money.
What fraction of her money was left?
(Express the answer in its simplest form)

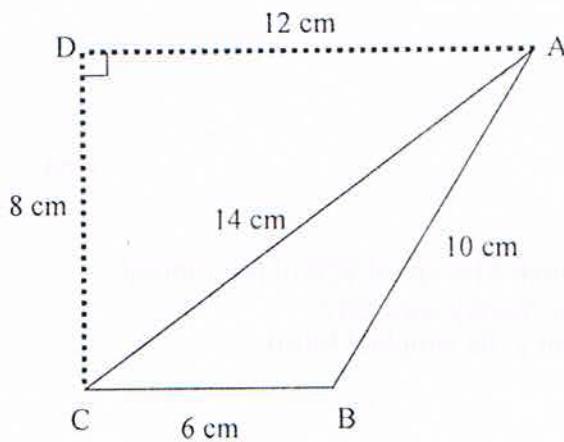
Ans: _____ [2]

4. The figure below is made up of 3 equilateral triangles and 3 squares.
Find the ratio of the length AB to length CD to length EF.
(Express the answer in its simplest form)



Ans: _____ [2]

5. The area of the triangle ABC is _____ cm^2 .



Ans: _____ [2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

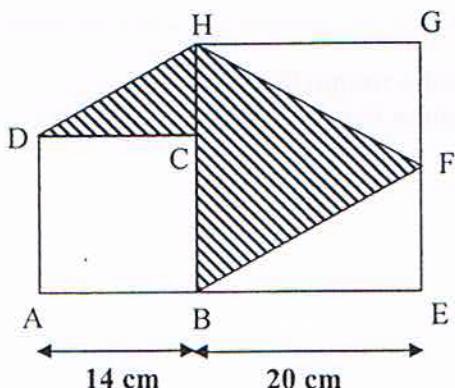
6. 2 machines took 14 minutes to print a magazine.
How long would it take for 7 machines to print a magazine?

Ans: _____ [3]

7. In a library, the ratio of the number of fiction books to the number of reference books was 3:7. After buying 126 fiction books, the ratio of the number of fiction books to the number of reference books was 3:4.
How many fiction books were there in the end?

Ans: _____ [3]

8. In the figure below, ABCD and BEGH are squares. CDH and BFH are triangles. Find the total shaded areas.



Ans: _____ [3]

9. Alicia had some beads. She gave Bernice half of the beads and 2 more. Then she gave half of the remaining beads and 3 more to Cindy. If Alicia had 9 beads after this, how many beads had Alicia at first?

Ans: _____ [4]

10. Mr Lim had some stickers and stamps for his class. The number of stickers was half as many as the number of stamps. After each pupil in the class had received 3 stickers and 8 stamps from Mr Lim, he had 39 stickers and 2 stamps left. What was the total number of stickers and stamps Mr Lim had at first?

Ans: _____ [4]

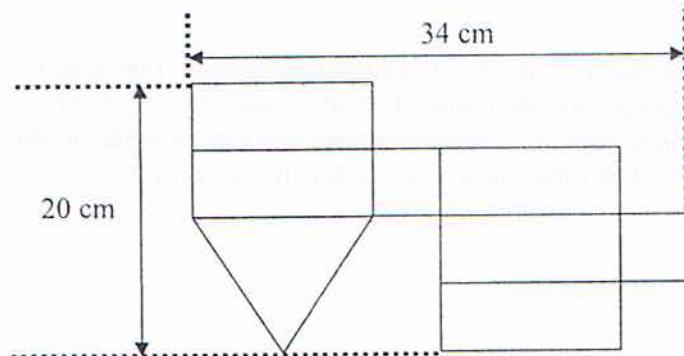
11. A cubical container of edge 8 cm was filled to the brim with water. The water was then poured to a rectangular tank that already had some water in it. The ratio of the volume of the empty cubical container to the volume of water in the rectangular tank was then 4:7. Find the volume of water that was in the rectangular tank at first.

Ans: _____ [3]

12. Michelle went shopping and spent \$225 on a watch.
She used $\frac{5}{6}$ of her remaining money to buy a dress.
She was then left with $\frac{2}{15}$ of her initial amount of money.
How much money did she have at first?

Ans: _____ [3]

13. The figure below is made up of 5 identical rectangles, 2 identical squares and 1 triangle. Find the area of the figure.



Ans: _____ [4]

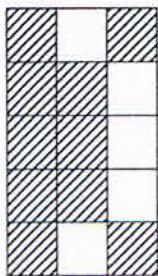
14. A basket with 80 apples had a mass of 1320g. The same basket with 60 oranges had a mass of 1850g. If the mass of each orange is 2 times the mass of an apple, find the mass of the empty basket.

Ans: _____ [4]

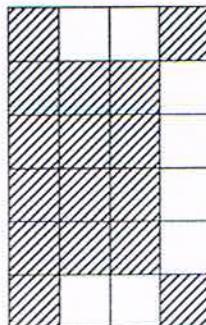
15. Chloe paid \$3884.55 for 1 television set, 1 laptop and 3 chairs.
The television set cost \$520 more than the laptop.
Each chair cost \$899.90 less than the television set.
How much did the television set cost?

Ans: _____ [4]

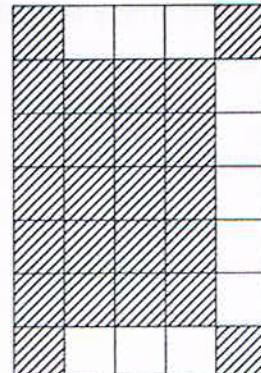
16. Jason formed the following pattern using 1-cm square.



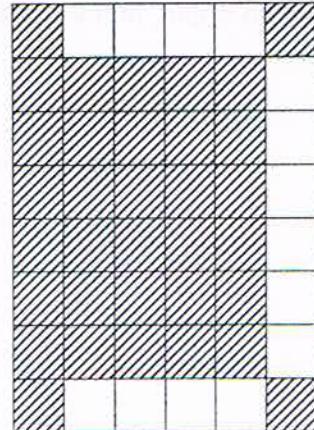
Pattern 1



Pattern 2



Pattern 3



Pattern 4

(a) How many shaded squares are there in pattern 55?

(b) How many squares are there in pattern 250?

Ans: (a) _____ [3]

(b) _____ [2]

17. In a concert, $\frac{5}{6}$ of the audience were adults and the rest were children. $\frac{1}{4}$ of the adults were men and $\frac{3}{8}$ of the children were girls. If there were 450 more female than male audience in the concert, how many women were there?

Ans: _____ [5]

18. Andy and Betty saved a fixed amount every day. Betty, who started saving earlier, saved \$4 each day. By the 10th day of Betty's savings, Andy had saved \$18. By the 16th day of Betty's savings, Andy had saved \$54.
- (a) Find the ratio of Andy's savings to Betty's savings.
(leave your answer in the simplest form)
- (b) On which day of Betty's savings will Andy save the same amount as Betty?

Ans: (a) _____ [2]

(b) _____ [3]

-End of Paper-
Please check your work carefully ☺

Setters: Mr Ho Kai Huat
Ms Lee Suan Khim
Mr Jonathan Teo

RGPS P5 SA1 Mathematics 2011 Answer Key (Paper 1)

Updated: 13 May 2011

Section A (1m each for Q1-10; 2m each for Q11-15)

1) 4	6) 1	11) 2
2) 3	7) 2	12) 1
3) 4	8) 4	13) 4
4) 4	9) 3	14) 3
5) 4	10) 3	15) 4



Section B (1 mark each)

16) 513 820, 513 082, 231 058, 213058	21) $3 \frac{17}{20}$
17) 0.1 Or equivalent	22) 4.375
18) 12	23) 1.05
19)	24) 3.375
20) 55	25) 50 : 1

Section B (2 marks each)

26) Distance b/w 2 pupils $\rightarrow 12m \div 3$ (M1)
 $= 4m$

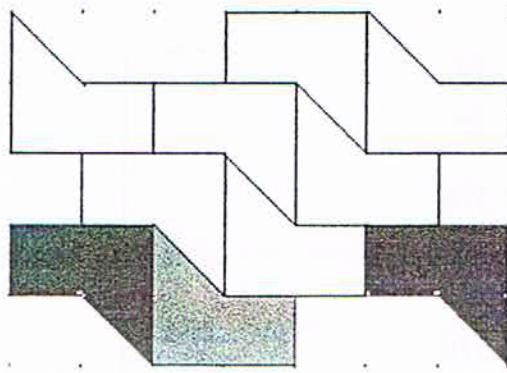
Distance b/w 1st & 12th pupil $\rightarrow 4m \times 11$ (A1)
 $= 44m$

27) 60 (A2 - either right or wrong)

28) $20 + 33 + 1 = 54$ (M1, A1)
(A2 if all values indicated in the boxes correctly)

$6 \times 3 = 18$ $432 \div 18 = 24$ $24 \div 3 = 8$	$6 \times 3 = 18$ $432 \div 3 = 144$ $144 \div 18 = 8$
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30)



A1 for each correct unit shape drawn

RGPS P5 SA1 Mathematics 2010 Answer Key (Paper 2)

2m each: Q1 – Q5

3m each: Q6 – Q8, Q11 – Q12

4m each: Q9 – Q10, Q13 – Q15

5m each: Q16 – Q18

1) $120\text{cm} \div 8 = 15\text{cm}$ (M1) $15\text{cm} \times 3 = 45\text{cm}$ $15\text{cm} \times 45\text{cm} = 675\text{cm}^2$ (A1)	$120 \div 2 = 60$ $60 \div 4 = 15$ $15 \times 45 = 675 \text{ cm}^2$ (A1)
2) 24, 48 or: A2 awarded as long as answers are clearly shown in working. No marks deducted for transfer errors.	
3) $63 - 28 = 35$ (M1) $\frac{35}{63} = \frac{5}{9}$ (A1)	$63 - 28 = 35$ (M1) $35 \div 7 = 5$ $63 \div 7 = 9$ $\frac{5}{9}$ (A1) or: $\begin{array}{r} 63 - 28 = 35 \\ 63 \quad 63 \quad 63 \end{array}$ (M1) $\begin{array}{r} 35 - 5 \\ 63 \quad 9 \end{array}$ (A1) (No answer mark if \$ is added.)
4) $3 \times 3 = 9$ $6 \times 6 = 36$ $9 \times 9 = 81$ (M1 for listing all three steps correctly) $9:6:3 = 3:2:1$ (A1)	M1 awarded if all 3 lengths are clearly shown in diagram.

5) Area of triangle ABC $\rightarrow \frac{1}{2} \times 6\text{cm} \times 8\text{ cm}$ (M1)
 $= \underline{24 \text{ cm}^2}$ (A1)

or:

(Pupil added Point E to form a rectangle)

$$\begin{aligned}\text{Area of rectangle} &= 12 \times 8 \\ &= 96 \text{ cm}^2\end{aligned}$$

$$\begin{aligned}\text{Area of triangle ADC} &= \frac{1}{2} \times 12 \times 8 \\ &= 48 \text{ cm}^2\end{aligned}$$

$$\begin{aligned}\text{Area of triangle ABE} &= \frac{1}{2} \times 8 \times 6 \\ &= 24 \text{ cm}^2\end{aligned}$$

$$\begin{aligned}\text{Area of triangle ABC} &= 96 - 48 - 24 \quad (\text{M1}) \\ &= \underline{24 \text{ cm}^2} \quad (\text{A1})\end{aligned}$$

6) 2 machines $\rightarrow 14\text{ min}$
 1 machine $\rightarrow 14\text{ min} \times 2 = 28\text{ min}$ (M1)
 7 machines $\rightarrow 28 \div 7 = \underline{4 \text{ min}}$ (M1, A1)

or:

The first M1 is awarded only if the time taken for 1 machine is shown.

7) Before After
 $F : R \quad F : R$
 $3 : 7 \quad 3 : 4$
 * No additional reference books were bought
 $*(3 \times 4) \quad (7 \times 4) \quad *(3 \times 7) \quad (4 \times 7)$
 $12 : 28 \quad 21 : 28$
 $21 - 12 = 9$
 9 units $\rightarrow 126$ books
 1 unit $\rightarrow 126$ books $\div 9 = 14$ books (M1)
 21 units $\rightarrow 21 \times 14$ books = 294 books (M1, A1)

or:

Alternative for last step (2nd M1, A1):
 $14 \times 12 = 168$
 $168 + 126 = \underline{294}$ (M1, A1)

(Methods using simultaneous equations and fractions also accepted.)

8) Area of bigger triangle $\rightarrow \frac{1}{2} \times 20 \text{ cm} \times 20 \text{ cm}$ (M1)

$$= 200 \text{ cm}^2$$

Area of smaller triangle $\rightarrow \frac{1}{2} \times 14 \text{ cm} \times 6 \text{ cm}$ (M1)

$$= 42 \text{ cm}^2$$

Total shaded areas $\rightarrow 200 \text{ cm}^2 + 42 \text{ cm}^2$

$$= \underline{\underline{242 \text{ cm}^2}} \text{ (A1)}$$

9) Half of remaining beads $\rightarrow 9 + 3$
 $= 12$

Remaining beads $\rightarrow 12 + 12$ (M1)
 $= 24$

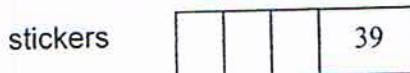
Half of beads at first $\rightarrow 24 + 2$ (M1)
 $= 26$

Beads at first $\rightarrow 26 + 26$ (M1)
 $= \underline{\underline{52}}$ (A1)

or:

$$\begin{aligned} 9 + 3 &= 12 \\ 12 + 2 &= 14 \quad (\text{M1}) \\ 14 \times 2 &= 28 \quad (\text{M1}) \\ 12 \times 2 &= 24 \quad (\text{M1}) \\ 28 + 24 &= \underline{\underline{52}} \quad (\text{A1}) \end{aligned}$$

10)



$$\begin{aligned}1 \text{ unit} + 1 &= 39 \\1 \text{ unit} &= 38 \\11 \text{ units} &= 11 \times 38 = 418 \\418 + 39 + 2 &= \underline{459}\end{aligned}$$

(M1)
(M1)
(M1, A1)

or:

$$153 + 306 = \underline{459}$$

(Full mark given if the students used guess and check method)

or:

$$\begin{aligned}38 \times 3 &= 114 \\114 + 39 &= 153 \\38 \times 8 &= 304 \quad (\text{M1}) \\304 + 2 &= 306 \quad (\text{M1}) \\306 \div 2 &= 153 \quad (\text{M1}) \\153 \times 3 &= \underline{459} \quad (\text{A1})\end{aligned}$$

11) $8 \text{ cm} \times 8 \text{ cm} \times 8 \text{ cm} = 512 \text{ cm}^3$

$$\begin{aligned}512 \text{ cm}^3 \div 4 &= 128 \text{ cm}^3 \quad (\text{M1}) \\128 \text{ cm}^3 \times 7 &= 896 \text{ cm}^3 \quad (\text{M1}) \\896 \text{ cm}^3 - 512 \text{ cm}^3 &= \underline{384 \text{ cm}^3} \quad (\text{A1})\end{aligned}$$

or:

$$\begin{aligned}512 \div 4 &= 128 \quad (\text{M1}) \\128 \times 3 &= \underline{384} \quad (\text{M1, A1})\end{aligned}$$

12) Method 1

$$\begin{aligned}\frac{2}{15} \times 6 &= \frac{12}{15} \\1 - \frac{12}{15} &= \frac{3}{15} \\225 \div 3 &= 75 \quad (\text{M1}) \\75 \times 15 &= \underline{1125} \quad (\text{M1, A1})\end{aligned}$$

Method 2

$$\begin{aligned}\frac{3}{15} &= \frac{1}{5} \rightarrow 225 \quad (\text{M1}) \\225 \times 5 &= \underline{1125} \quad (\text{M1, A1})\end{aligned}$$

13) Method 1Length of square \rightarrow 5 cmLength of rectangle \rightarrow 12 cm

$$\begin{aligned} \text{Area of 2 squares} &\rightarrow (5 \text{ cm} \times 5 \text{ cm}) \times 2 \\ &= 50 \text{ cm}^2 \end{aligned} \quad (\text{M1})$$

$$\begin{aligned} \text{Area of 5 rectangles} &\rightarrow (12 \text{ cm} \times 5 \text{ cm}) \times 5 \\ &= 300 \text{ cm}^2 \end{aligned} \quad (\text{M1})$$

$$\begin{aligned} \text{Area of triangle} &\rightarrow \frac{1}{2} \times 12 \text{ cm} \times 10 \text{ cm} \\ &= 60 \text{ cm}^2 \end{aligned} \quad (\text{M1})$$

$$\begin{aligned} \text{Total area} &\rightarrow 50 \text{ cm}^2 + 300 \text{ cm}^2 + 60 \text{ cm}^2 \\ &= \underline{\underline{410 \text{ cm}^2}} \end{aligned} \quad (\text{A1})$$

Method 2

square \rightarrow 5 cm \times 5 cm = 25 cm²

2 squares \rightarrow 25 cm² \times 2 = 50 cm² (M1)

rectangle \rightarrow 12 cm \times 5 cm = 60 cm²

5 rectangles \rightarrow 60 cm² \times 5 = 300 cm² (M1)

triangle \rightarrow $\frac{1}{2} \times 12 \text{ cm} \times 10 \text{ cm} = 60 \text{ cm}^2$ (M1)

50 cm² + 300 cm² + 60 cm² = 410 cm² (A1)

Method 3

12 cm \times 5 cm = 60 cm²

60 cm² \times 6 = 360 cm² (M2)

5 cm \times 5 cm \times 2 cm = 50 cm² (M1)

360 cm² + 50 cm² = 410 cm² (A1)

14) Mass of 1 orange \rightarrow Mass of 2 apples

Mass of 60 oranges \rightarrow 60 \times 2 = Mass of 120 apples

Mass of the basket with 120 apples \rightarrow 1850 g

Mass of basket with 80 apples \rightarrow 1320 g

Mass of 40 apples \rightarrow 1850 g - 1320 g = 530 g (M1)

Mass of 80 apples \rightarrow 530 g \times 2
= 1060 g (M1)

Mass of empty basket \rightarrow 1320 g - 1060 g
= 260 g (M1)
(A1)

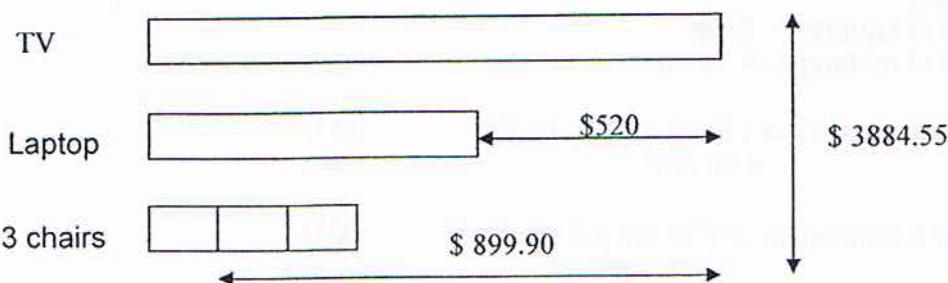
or:

530 \div 20 = 26.5 (M1)

26.5 \times 60 = 1590 (M1)

1850 - 1590 = 260 g (M1, A1)

15)

Method 1

$$\$899.90 - \$520 = \$379.90$$

$$\$899.90 + \$379.90 = \$1279.80 \quad (\text{M1})$$

$$\$3884.55 - \$1279.80 = \$2604.75 \quad (\text{M1})$$

$$\$2604.70 \div 5 = \$520.95 \quad (\text{M1})$$

$$\$520.95 + \$899.90 = \underline{\$1420.85} \quad (\text{A1})$$

Method 2

$$\$899.90 \times 3 = \$2699.70$$

$$\$2699.70 + \$520 = \$3219.70 \quad (\text{M1})$$

$$\$3219.70 + \$3884.55 = \$7104.25 \quad (\text{M1})$$

$$\$7104.25 \div 5 = \underline{\$1420.85} \quad (\text{M1, A1})$$

or:

$$(3884.55 + 2699.7) - (520 \times 4) = 4504.25 \quad (\text{M1})$$

$$4504.25 \div 5 = 900.85 \quad (\text{M1})$$

$$900.85 + 520 = \underline{\$1420.85} \quad (\text{M1, A1})$$

17) $\frac{5}{6} \times \frac{1}{4} = \frac{5}{24}$ (men)

$$\frac{5}{6} \times \frac{3}{4} = \frac{15}{24}$$
 (women)

$$\frac{1}{6} \times \frac{3}{8} = \frac{3}{48}$$
 (girls)

$$\frac{1}{6} \times \frac{5}{8} = \frac{5}{48}$$
 (boys)

$$\frac{15}{24} + \frac{3}{48} = \frac{33}{48}$$
 (females) OR $\frac{11}{16}$ (M1)

$$1 - \frac{33}{48} = \frac{15}{48}$$
 (male) $\frac{5}{16}$ (M1)

$$33 - 15 = 18$$
 $11 - 5 = 6$ (M1)

$$450 \div 18 = 25$$
 $450 \div 6 = 75$ (M1)

$$30 \times 25 = \underline{\underline{750}}$$
 $10 \times 75 = \underline{\underline{750}}$ (A1)

18a) $54 - 18 = 36$
 $36 \div 6 = 6$ (M1)
 $6 : 4$
 $= \underline{\underline{3 : 2}}$ (A1)

18b) $16 \times 4 = 64$ OR $4 \times 10 = 40$
 $64 - 54 = 10$ (M1) $40 - 18 = 22$ (M1)
 $10 \div 2 = 5$ (M1) $22 \div 2 = 11$ (M1)
 $5 + 16 = \underline{\underline{21}}$ (A1) $10 + 11 = \underline{\underline{21}}$ (A1)

OR Listing :

Day	10	11	12	13	14	15	16	17	18	19	20	21
A	40	44	48	52	56	60	64	68	72	76	80	84
B	18	24	30	36	42	48	54	60	66	72	78	84

Correct start for first 3 → M1
(Either for Day 11-13 or Day 17-19)

Able to show 5 days after Day 16 → M1

Ans : 84 (A1)



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form Class: P5 _____

Date: 24 October 2011

Duration: 50 min

Your Score (Out of 100 marks)			
Your Score (Out of 40 marks)			
		Banded Math Class	Level
PAPER 1 (40%)	Highest Score		
	Average Score		
TOTAL (100%)	Highest		
	Average Score		
Parent's Signature			

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. **NO** calculator is allowed for this paper.

SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

1. 3 tens, 4 ones and 5 tenths is _____.

- (1) 34.05
- (2) 34.50
- (3) 43.05
- (4) 43.50

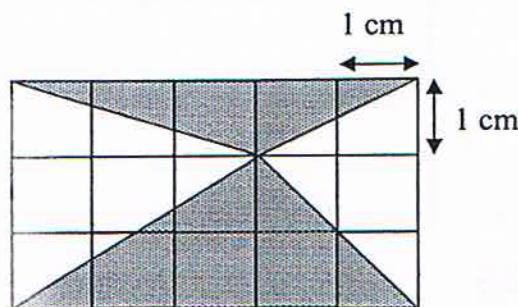
()

2. Find the value of $\frac{3}{4} + 1\frac{1}{3}$.

- (1) $1\frac{1}{12}$
- (2) $1\frac{4}{7}$
- (3) $2\frac{1}{12}$
- (4) $2\frac{4}{7}$

()

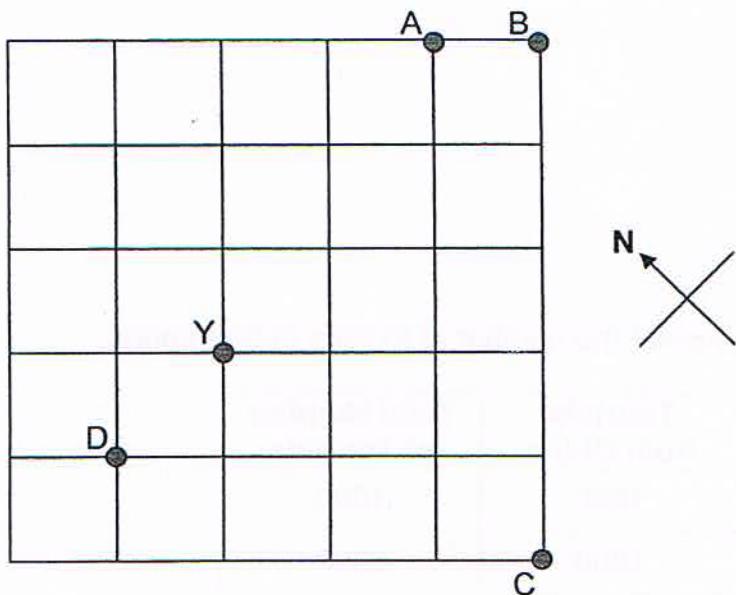
3. Find the area of the shaded figure.



- (1) 5.5 cm^2
- (2) 7.5 cm^2
- (3) 10 cm^2
- (4) 15 cm^2

()

4. There are 5 points, A, B, C, D and Y, on the square-grid shown below. Which point is east of point Y?



- (1) A
(2) B
(3) C
(4) D

()

5. Which of the following cannot be tessellated?

- (1) 
(2) 
(3) 
(4) 

()

6. Find the value of the following.

$$(106 - 6 \times 4) + 18 \div 2$$

- (1) 50
- (2) 91
- (3) 209
- (4) 409

()

7. The table below showed the number of tourists in Singapore.

Year	Tourists from China	Total Number of Tourists
2008	800	4000
2009	1800	5000

What percentage of the tourists was from China in 2009?

- (1) 25%
- (2) 36%
- (3) 45%
- (4) 64%

()

8. Express $1\frac{5}{9}$ as a decimal to 1 decimal place.

- (1) 0.5
- (2) 0.6
- (3) 1.5
- (4) 1.6

()

9. The ratio of Ann's savings to Ben's savings is 2 : 3.

The ratio of Ben's savings to Carl's savings is also 2 : 3.

What is the ratio of Ann's savings to Carl's savings?

- (1) 2 : 3
- (2) 3 : 2
- (3) 4 : 9
- (4) 9 : 4

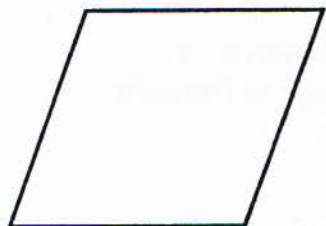
()

10. Which number is a common factor of 30 and 45?

- (1) 6
- (2) 15
- (3) 30
- (4) 90

()

11. A rhombus has only _____ line(s) of symmetry.



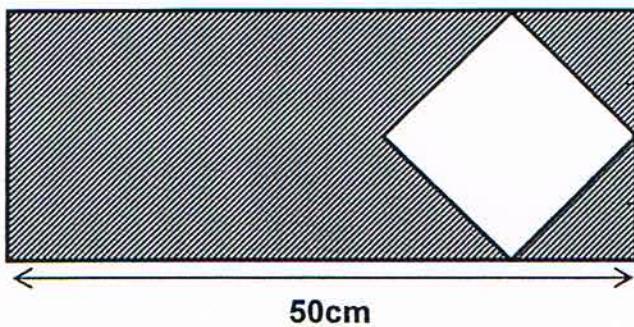
- (1) 1
- (2) 2
- (3) 0
- (4) 4

()

12. The diagram below is made up of a rectangle and a square.

The breadth of the rectangle is $\frac{2}{5}$ that of its length.

Find the area of the shaded region.



- (1) 200 cm^2
- (2) 750 cm^2
- (3) 800 cm^2
- (4) 1000 cm^2

()

13. John scored a total of 98 marks for his Mathematics and Science examinations. He scored 60 marks for English and 70 marks for Chinese. What was his average of the 4 subjects?
(1) 57.0
(2) 65.0
(3) 76.0
(4) 81.5 ()
14. Penny and Queenie shared some stickers in the ratio 5 : 7. When Queenie gave 30 stickers to Penny, the ratio of Penny's stickers to Queenie's stickers became 5 : 1. How many stickers did Queenie have at first?
(1) 30
(2) 35
(3) 42
(4) 60 ()
15. Yazid and his classmates raced one another across a field. Midway through the race, $\frac{1}{5}$ of Yazid's classmates was running in front of him and $\frac{7}{9}$ of the total number of pupils in the class was running behind him. What was the total number of pupils in the class including Yazid?
(1) 35
(2) 36
(3) 38
(4) 45 ()

SECTION B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. All diagrams
are not drawn to scale unless otherwise stated.

16. Arrange these numbers in descending order.

0.206, 0.026, 0.602, 0.062

Ans: _____, _____, _____, _____

17. A bag of corn flour weighed 0.42 kg.

Find the total mass of 70 such bags of corn flour.

Ans: _____ kg

$$18. \quad 3 \frac{1}{A} = \frac{13 + A}{A}$$

Find the value of A.

Ans: _____

19. 4 girls shared $\frac{6}{7}$ of a cake equally.

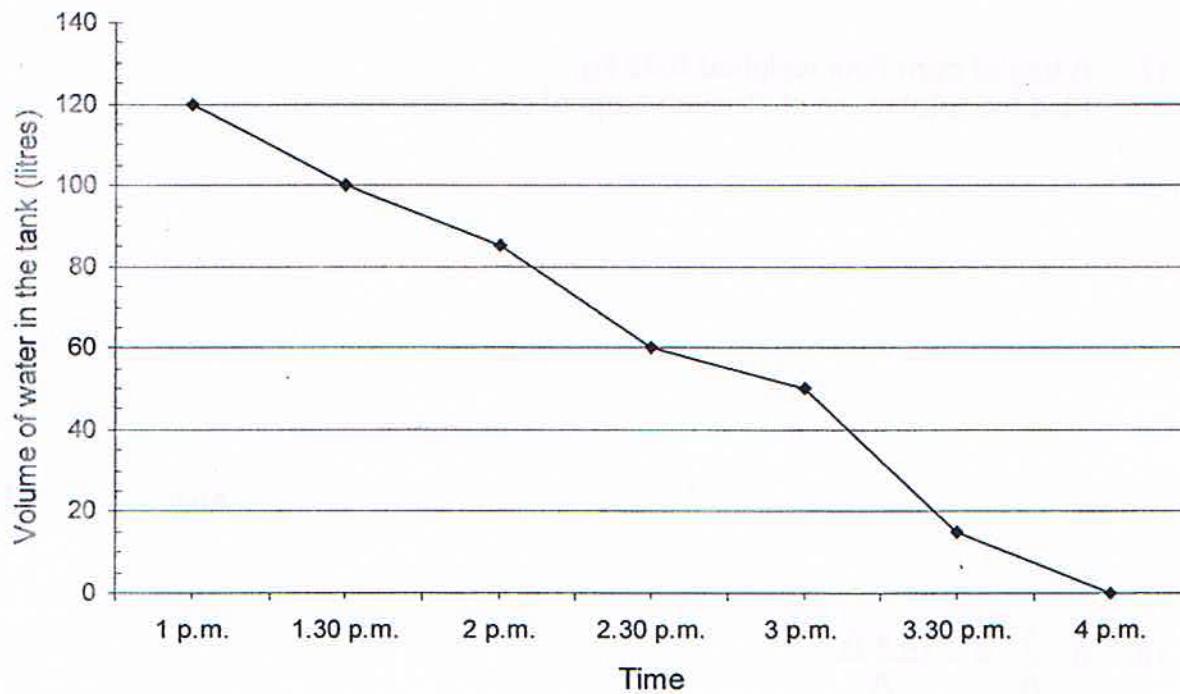
What fraction of the cake did each girl get?

Ans: _____

20. A tank was completely filled with water at 1 p.m..

To empty the tank, water was allowed to flow out at different rate.

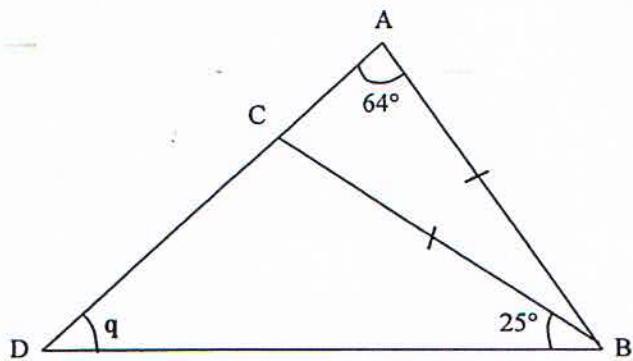
The line graph below shows the volume of water in the tank from 1 p.m. to 4 p.m.



How long did it take for the tank to be half-emptied?

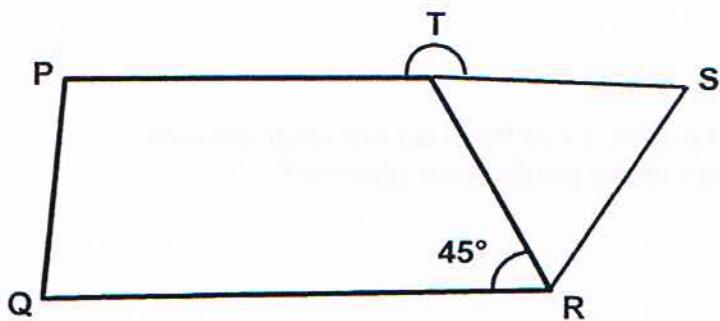
Ans: _____ h

21. ABC is an isosceles triangle and ACD is a straight line. Find $\angle q$.
(The figure is not drawn to scale.)



Ans: _____ °

22. In the figure below, not drawn to scale, PQRT is a trapezium and RST is an equilateral triangle. Find $\angle PTS$.

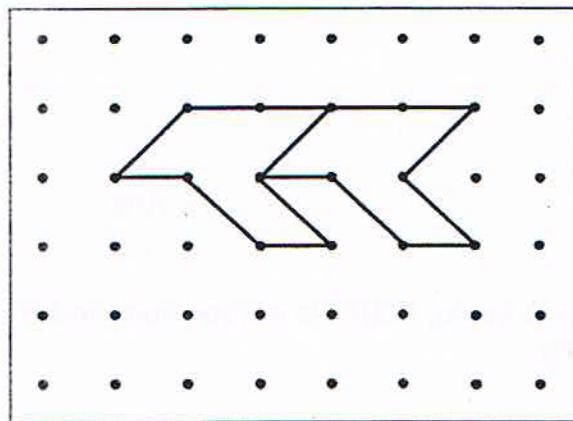


Ans: _____ °

23. 8 girls take 3 days to paint a room.
How many girls are required to paint the same room in 1 day?

Ans: _____

24. Extend the tessellation by drawing 2 more unit shapes.

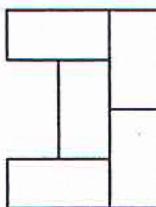


25. In a class of 36 pupils, 12 of them do not wear glasses.
What percentage of the pupils wear glasses?

Ans: _____ %

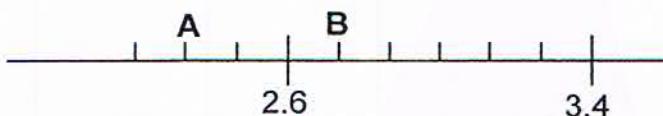
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale unless otherwise stated. Answers in fractions or ratio must be expressed in the simplest form.

26. The figure below is made up of 5 identical rectangles.
What is the minimum number of such rectangle(s) that must be added to the figure to form a square?



Ans: _____

27. Study the number line below.
Find the difference between value A and value B.



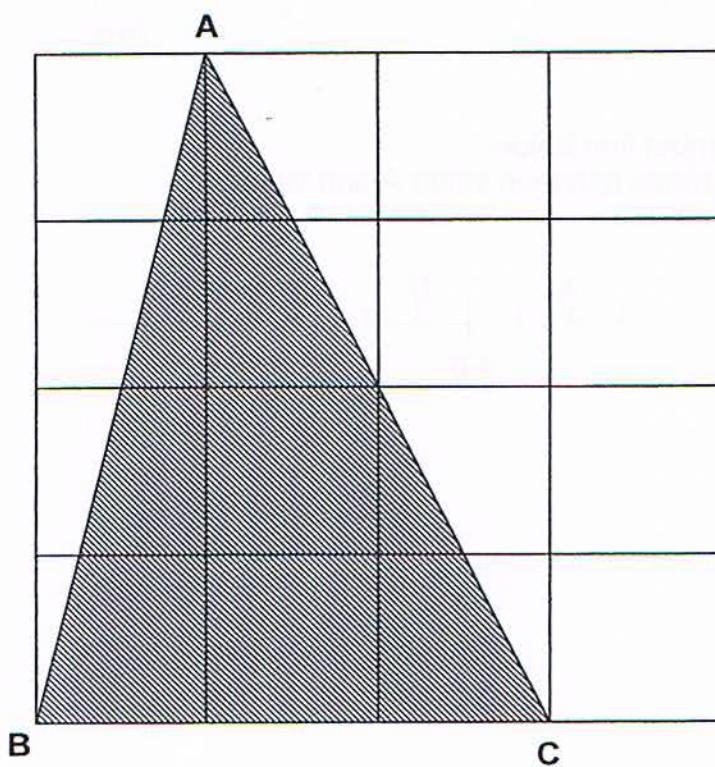
Ans: _____

28. A tank measuring 20cm by 40cm by 15cm is $\frac{3}{5}$ full of water.

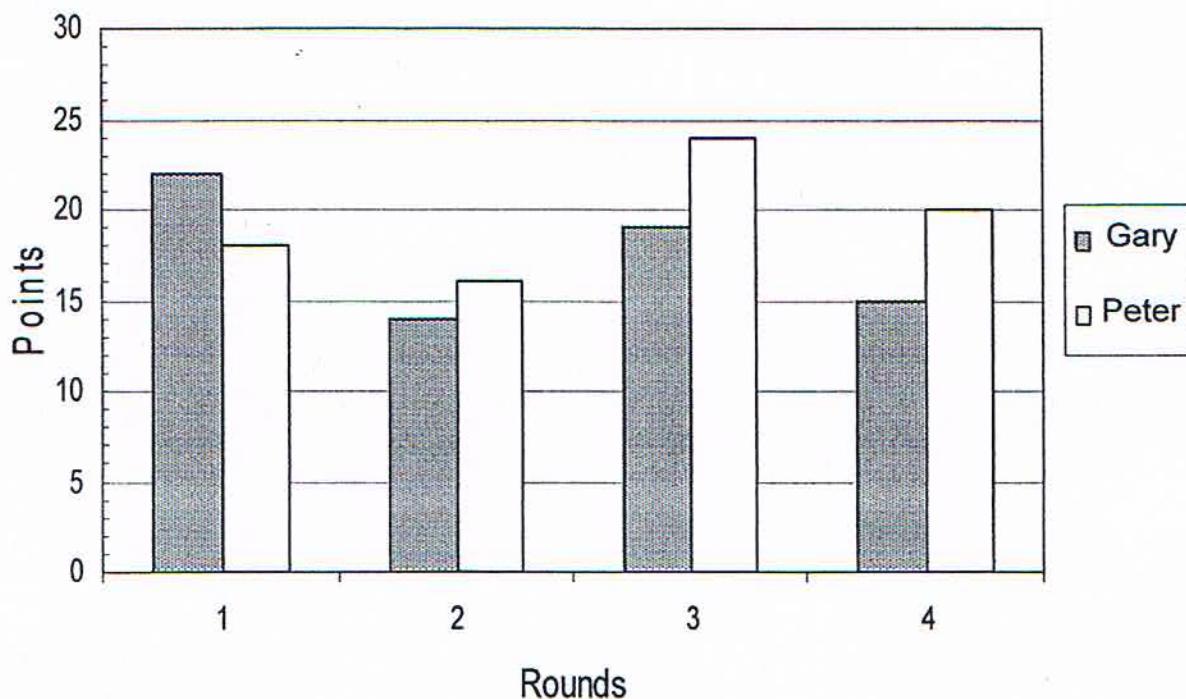
Find the amount of water needed to fill the tank completely.

Ans: _____ l

29. The diagram below shows a shaded triangle ABC within the square grids. Using BC as the base, draw another triangle within the grid that has **HALF** the area as triangle ABC.



30. There were 5 rounds in a Math Challenge.
The graph below shows the points obtained by Gary and Peter in 4 of the rounds.



There can only be one winner in the Math Challenge.
If Gary obtained 24 points in Round 5, what is the minimum number of points
Peter must obtain in order to win the Math Challenge?

Ans: _____



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____

Date: 24 October 2011

Duration: 1 h 40 min

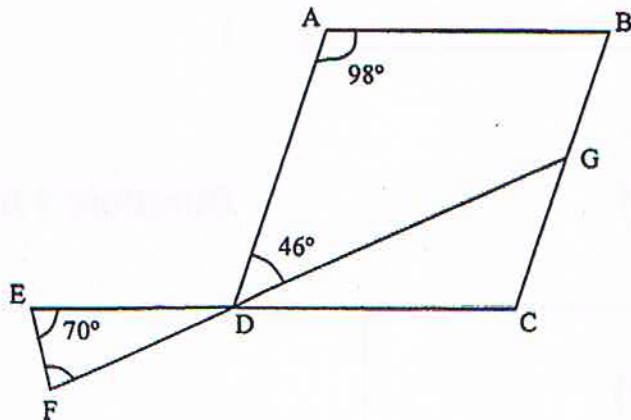
Your Score (Out of 60 marks)		
	Banded Math Class	Level
Highest Score		
Average Score		

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

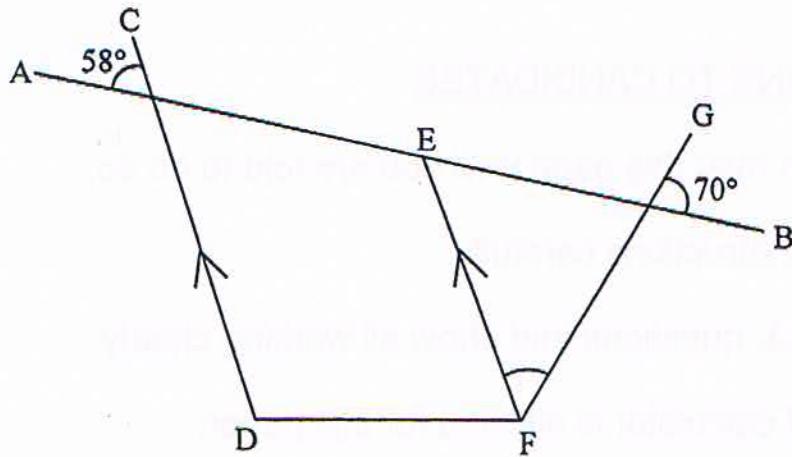
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale unless otherwise stated. (10 marks)

1. The figure below is not drawn to scale. ABCD is a parallelogram. CDE and GDF are straight lines. Find $\angle DFE$.



Ans: _____ ° [2]

2. In the figure below, AB and GF are straight lines. $CD \parallel EF$. Find $\angle GFE$.

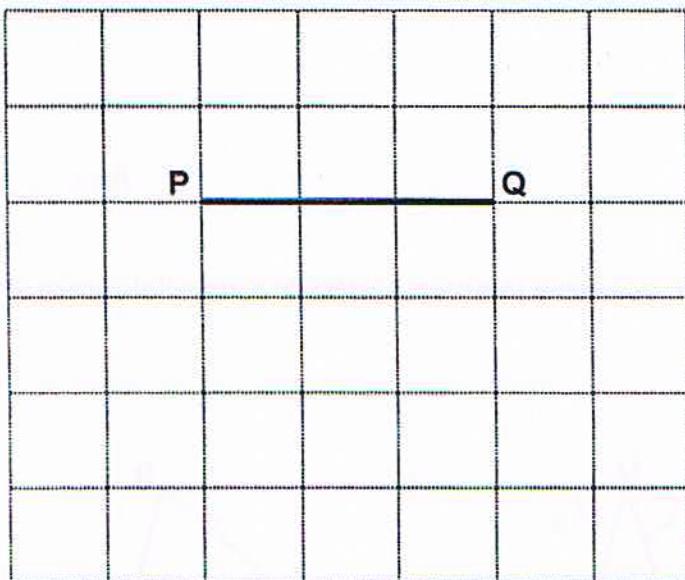


Ans: _____ ° [2]

3. There are 23 odd numbers between 49 and \star .
 \star is an even number. What is \star ?

Ans: _____ [2]

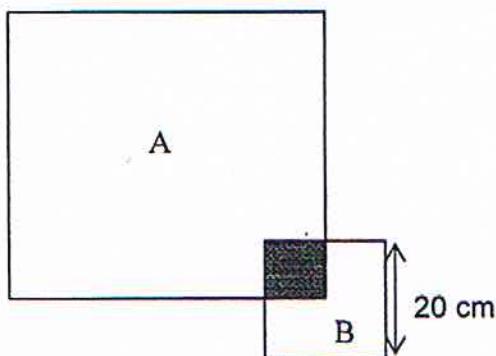
4. PQ is one side of a right-angled isosceles triangle. Complete the diagram to form the isosceles triangle PQR where $PQ = QR$.



5. The diagram below shows two squares, A and B.

The shaded area represents $\frac{1}{4}$ of square B and $\frac{4}{25}$ of square A.

Given that the length of square B is 20 cm, find the area of square A.



Ans: _____ cm^2 [2]

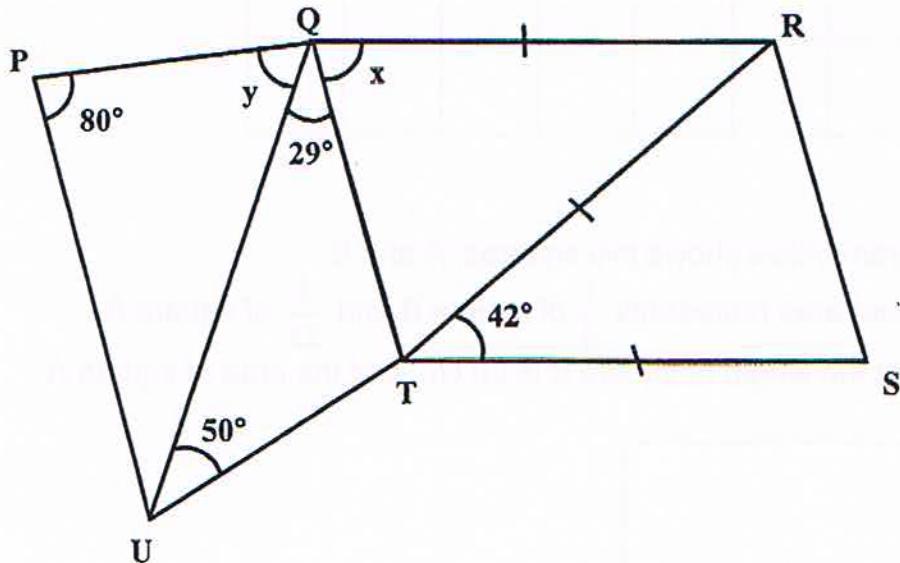
For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. All diagrams are not drawn to scale unless otherwise stated.

The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. A pen cost \$1.10 less than a file.
Karin can either buy 48 files or 92 pens with all her money.
How much does a pen cost?

Ans: _____ [3]

7. In the figure below, not draw to scale, QRST is a parallelogram and PQTU is a trapezium.
(a) Find $\angle x$
(b) Find $\angle y$



Ans: (a) _____ [1]

(b) _____ [2]

8. There are 22 boys and 18 girls in Primary 5A.
The average mass of all the boys is 41 kg and the average mass of all the girls is 38 kg. What is the average mass of all the pupils in Primary 5A?

Ans: _____ [3]

9. Ali and Maria each had an equal amount of money at first.
Every day, Ali spent \$25 and Maria spent \$18.
When Ali spent all his money, Maria still had \$357 left.
How much did each of them have at first?

Ans: _____ [3]

10. Sue had \$80 more than her brother. After Sue spent 25% of her money and her brother spent 75% of his money, they still had \$420 left altogether.
- How much did Sue have left in the end?
 - Express the amount of money her brother had left as a fraction of the amount of money Sue had in the end.
(Give your answer in the simplest form.)

Ans: (a) _____ [3]

(b) _____ [1]

11. On the first day, 116 flags were used to mark the total distance of a road race. The distance between each flag was 2.2 km.
On the second day, some flags were removed and the remaining flags were used to mark the same total distance.
The new distance between each flag was 2.75km.
How many flags were removed?

Ans: _____ [3]

12. Figure 1 shows a rectangular container filled with some water and 8 identical blocks. The base area of the rectangular container is 448 cm^2 . Figure 2 shows the same container being turned upright. Find the volume of water in the container.

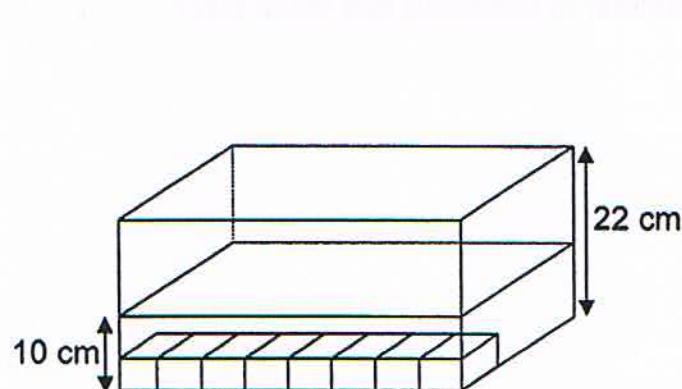


Figure 1

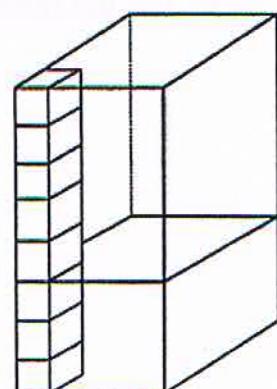


Figure 2

Ans: _____ [4]

21

13. Becky bought 7 basketballs with $\frac{3}{7}$ of the money she had.
She bought another 2 basketballs and 11 baseballs with her remaining money.
If Becky used the amount of money she had at first to buy only baseballs,
what was the maximum number of baseballs she could buy?

Ans: _____ [4]

14. Tom had a total of 430 two-dollar and five-dollar notes.
Jerry had 336 two-dollar notes and 220 five-dollar notes.
Jerry had \$396 more than Tom.
(a) How much did Tom have?
(b) How many two-dollar notes did Tom have?

Ans: (a) _____ [2]

(b) _____ [2]

15. The length of Rope A and Rope B is 30.55 m.
The length of Rope B, Rope C and Rope D is 58.93 m.
The length of Rope C, Rope D and Rope E is 64.53 m.
Rope E is twice the length of Rope A. Find the length of Rope A. -
Express your answer in metres.

Ans: _____ [4]

16. The mass of sand in Sack B was $\frac{1}{4}$ the mass of sand in Sack A.

After 52.5 kg of the sand in Sack A and 10 kg 150 g of the sand in Sack B was used, the mass of sand in Sack A was $\frac{1}{2}$ the mass of sand in Sack B.

What was the total mass of sand in Sack A and Sack B at first?

Ans: _____ [5]

17. The ratio of the number of \$2 notes and \$5 notes Jamie had was 15 : 13.
She exchanged 60 pieces of \$2 notes for \$5 notes.
She then had an equal number of \$2 and \$5 notes.
What was the total value of \$2 and \$5 notes Jamie had?

Ans: _____ [5]

18. The average number of sit-ups performed by 15 girls and some boys was 50.
The average number of sit-ups performed by the girls was 80% of the average
number of sit-ups performed by all the pupils.
The average number of sit-ups performed by the boys was 30% more than the
average number of sit-ups performed by the girls.
- (a) What was the average number of sit-ups performed by the girls?
(b) What percentage of the pupils were boys?

Ans: (a) _____ [1]

(b) _____ [4]

Answer Ke

EXAM PAPER 2011

SCHOOL : RAFFLES GIRLS'
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	3	2	2	2	2	2	4	3	2	2	3	1	3	2

16) 0.602, 0.206, 0.062, 0.026

17) 29.4kg

18) 6

19) $1\frac{3}{4}$

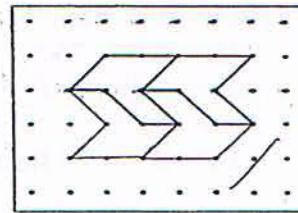
20) 1.5h

21) 30°

22) 185°

23) 24 girls

24)

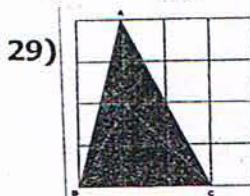


25) $66\frac{2}{3}\%$

26) 3 rectangle

27) 0.4

28) 48L



30) 17 points

Paper 2

1) $\angle DAB \rightarrow \angle BCD = 98^\circ$

$180^\circ - 98^\circ = 82^\circ$

$\angle GDC \rightarrow 82^\circ - 46^\circ = 36^\circ$

$\angle GDC \rightarrow \angle EDF = 36^\circ$

$70^\circ + 36^\circ = 106^\circ$

$180^\circ - 106^\circ = 74^\circ (\angle DFE)$

2) $180^\circ - 58^\circ = 122^\circ$

$180^\circ - 122^\circ = 58^\circ$

$58^\circ + 70^\circ = 128^\circ$

$\angle GFE \rightarrow 180^\circ - 128^\circ = 52^\circ$

3) $23 \times 2 = 46$ (numbers)

$49 + 46 = 95$

$95 + 1 = 96$

5) $20 \times 20 = 400$

$400 \div 4 = 100$ ($\frac{1}{4}$ of B)

$100 \div 4 = 25$

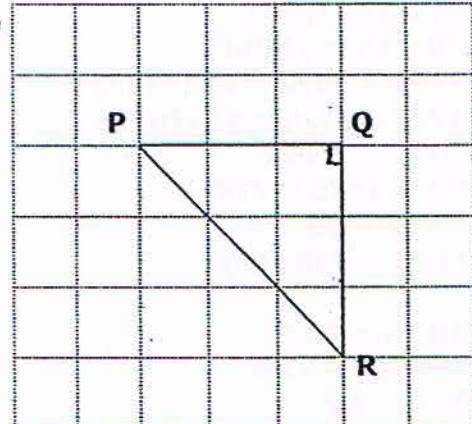
$25 \times 25 = 625 \text{ cm}^2$

6) $92 - 48 = 44$

$\$1.10 \times 48 = \52.80

$\$52.80 \div 44 = \1.20

4)



7) a) $180^\circ - 42^\circ = 138^\circ$
 $\angle \text{TRS} \rightarrow 138^\circ \div 2 = 69^\circ$
 $\angle \text{QTR} \rightarrow \angle \text{TRS} = 69^\circ$
 $\angle X \rightarrow 69^\circ$
 b) $\angle \text{TQU} \rightarrow \angle \text{PUQ} = 29^\circ$
 $29^\circ + 80^\circ = 109^\circ$
 $180^\circ - 109^\circ = 71^\circ$
 $\angle y \rightarrow 71^\circ$

9) $\$25 - \$18 = \$7$
 $\$357 \div 7 = 51$
 $51 \times 25 = \$1275$
Check
 $51 \times \$18 = \918
 $\$918 + \$357 = \$1275$

11) $116 - 1 = 115$
 $115 \times 2.2 = 253$
 $253 \div 2.75 = 92$
 $92 + 1 = 93$
 $116 - 93 = 23 \text{ flags}$

13) $2\text{BB} + 11\text{base} \rightarrow 4/7$
 $6\text{BB} + 33 \text{ base} \rightarrow 4/7 \times 3 = 12/7$
 $7\text{BB} + 0 \text{ base} \rightarrow 3/7$
 $42\text{BB} + 231 \text{ base} \rightarrow 12/7 \times 7$
 $= 84/7$
 $84 - 18 = 66$
 $231 \div 66 = 3.51 \text{ (1unit)} 1 \text{ base}$
 $3.5 \times 7 = 24.5$
 $25 - 1 = 24$

14) a) $336 \times \$2 = \672
 $220 \times \$5 = \1100
 $\$1100 + \$672 = \$1772 \text{ (J)}$
 $\$1772 - \$396 = \$1376 \text{ (T)}$
 b) $430 \times 5 = 2150$
 $2150 - 1376 = 774$
 $\$5 - \$2 = \$3$
 $774 \div 3 = 258 \text{ (\$2)}$

16) $4 \times 10.15 = 40.6$
 $52.5 - 40.6 = 11.9$
 $11.9 \div 7 = 1.7$
 $2 \times 1.7 + 10.15 = 13.55$
 $5 \times 13.55 = 67.75 \text{ kg}$

8) $41 \times 22 = 902$
 $38 \times 18 = 684$
 $902 + 684 = 1586$
 $22 \div 18 = 40$
 $1586 \div 40 = 39.65 \text{ kg}$

10) a) $80 \div 4 = 20$
 $20 \times 3 = 60$
 $420 - 60 = 360 \text{ (4u)}$
 $360 \div 4 = 90$
 $3 \times 90 = 270$
 $270 + 60 = \$330$
 b) $90/330 = 3/11$

12) $448 \times 22 = 9856 \text{ (cm}^2\text{) (vol of container)}$
 $448 \times 10 = 4480 \text{ (vol of water with blocks)}$
 $12 \times 448 = 5376 \text{ (air space) cm}^3$
 $448 \div 8 = 56$
 $8 - 3 = 5$
 $56 \times 5 = 280$
 $280 \times 22 = 6160$
 $6160 - 5376 = 784$
 $56 \times 3 = 168$
 $168 \times 22 = 3696$
 $448 - 3696 = 784$
 $784 \div 5 = 156.8 \text{ (1 block)}$
 $156.8 \times 8 = 1254.4$
 $4480 - 1254.4 = 3225.6 \text{ cm}^3$

15) $58.93 \text{ m} - 30.55 \text{ m} = 28.38 \text{ m (Ropes A,C&D)}$
 $64.53 \text{ m} - 28.38 \text{ m} = 36.15 \text{ m (A,E)}$
 $36.15 \text{ m} \div 3 = 12.05 \text{ m}$

17) $60 + 24 = 84$
 $84 \div 2 = 42 \text{ (1unit)}$
 $15 \times 42 = 630$
 $13 \times 42 = 546$
 $630 \times \$2 = \1260
 $546 \times \$5 = \2730
 $\$1260 + \$2730 = \$3990$

$$18) a) 50 \div 100 = 0.5$$

$$0.5 \times 80 = 40 \text{ sit-ups}$$

$$b) 40 \times 15 = 600 \text{ (sit-ups by G)}$$

$$40 \div 100 = 0.4$$

$$0.4 \times 130 = 52 \text{ (average of B)}$$

$$75 \times 52 = 3900$$

$$3900 + 600 = 4500$$

$$4500 \div (75 + 15) = 50$$

$$75 + 15 = 90$$

$$75/90 \times 100\% = 83\frac{1}{3}\%$$



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form Class: P5 _____ Math Teacher : _____

Date: 8 May 2017 Duration: 1 hour

Your Paper 1 Score (Out of 45 marks)	
Your Paper 2 Score (Out of 55 marks)	
Your Total Score (Out of 100 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. NO calculator is allowed for this paper.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

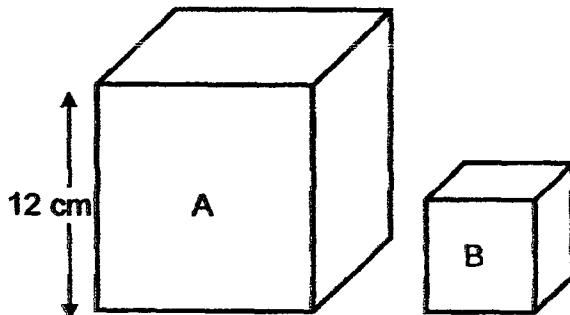
1. There were a total of 517 198 visitors to Alive Museum this year. Express this number to the nearest hundred.

- (1) 510 000
- (2) 517 100
- (3) 517 200
- (4) 518 000

2. $1040 \times 200 = 104 \times \underline{\hspace{2cm}} \times 20$

- (1) 10
- (2) 100
- (3) 1000
- (4) 10 000

3. The height of cube B is half the height of cube A. Find the volume of cube B.



- (1) 108 cm^3
- (2) 216 cm^3
- (3) 864 cm^3
- (4) 1728 cm^3

4. What is the missing number in the box below?

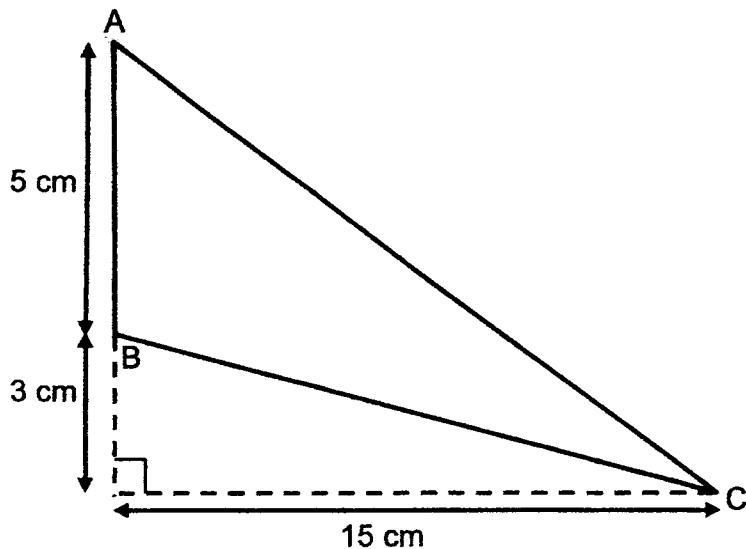
$$\frac{\square}{12} = \frac{6}{9}$$

- (1) 8
- (2) 9
- (3) 11
- (4) 18

5. Express $6\frac{7}{8}$ as an improper fraction.

- (1) $\frac{42}{8}$
- (2) $\frac{48}{8}$
- (3) $\frac{50}{8}$
- (4) $\frac{55}{8}$

6. Find the area of the triangle ABC.



- (1) 22.5 cm^2
- (2) 37.5 cm^2
- (3) 60 cm^2
- (4) 75 cm^2

7. 2 hundreds, 9 tenths and 7 thousandths is the same as _____.

- (1) 200.907
- (2) 200.97
- (3) 290.07
- (4) 290.007

8. Express 15.25 as a mixed number in its simplest form.

- (1) $15\frac{25}{100}$
- (2) $15\frac{1}{25}$
- (3) $15\frac{2}{5}$
- (4) $15\frac{1}{4}$

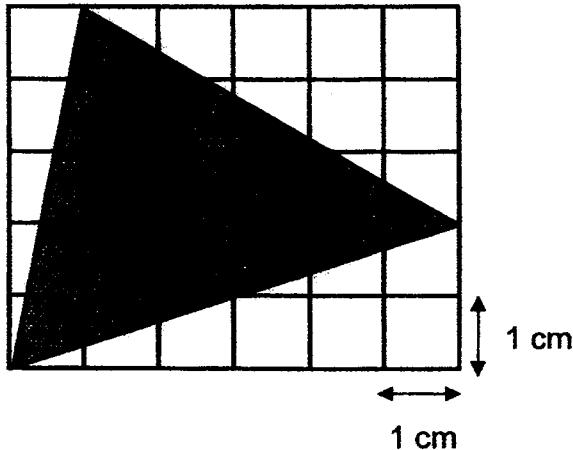
9. In a kitchen, the ratio of the number of bowls to the number of plates is 2 : 3. There are 60 plates. How many bowls are there?

- (1) 20
- (2) 24
- (3) 30
- (4) 40

10. What is the value of digit 7 in 287 020?

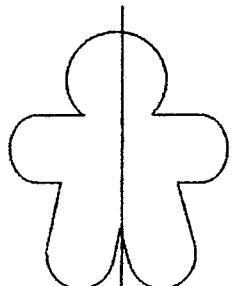
- (1) 70
- (2) 700
- (3) 7000
- (4) 70 000

11. Find the area of the shaded triangle.

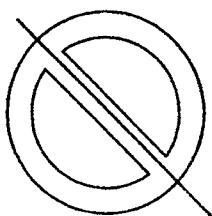


- (1) 12 cm^2
- (2) 14 cm^2
- (3) 16 cm^2
- (4) 18 cm^2

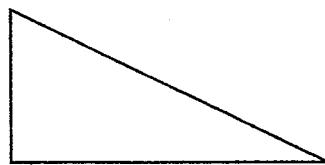
12. Which of the following are symmetric figures?



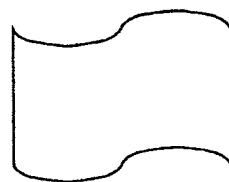
A



B



C



D

- (1) A and B
- (2) A and D
- (3) B and C
- (4) C and D

13. Study the pattern of the letters below.

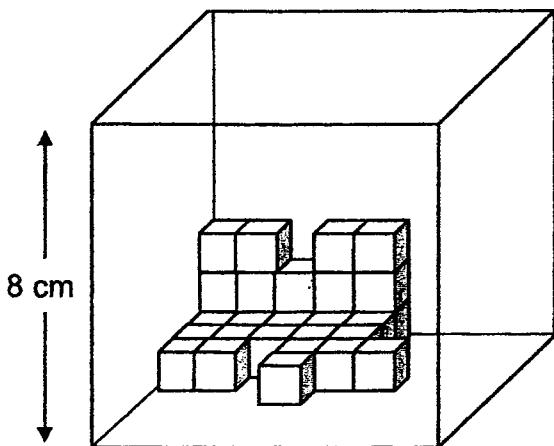
Column	1	...	24	25	26	27	28	29	30	31	32	...
Row 1	B	...	A	B	C	A	B	C	A	B	C	...
Row 2	P	...	S	P	Q	R	S	P	Q	R	S	...

Letters A and S appear at column 24. What is the next column that Letters A and S will appear together?

- (1) 33
- (2) 36
- (3) 40
- (4) 48

14. The 8-cm cubical container has some identical 1-cm solid cubes.

What is the volume of the empty space left in the container?



- (1) 30 cm^3
- (2) 34 cm^3
- (3) 482 cm^3
- (4) 487 cm^3

15. There were some balloons in the hall. $\frac{5}{8}$ of them burst. There were 60 balloons left. How many balloons burst?

- (1) 36
- (2) 96
- (3) 100
- (4) 160

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. All diagrams
are not drawn to scale. Answers in fractions or ratio must be expressed in the
simplest form.

16. Arrange the following numbers in increasing order.

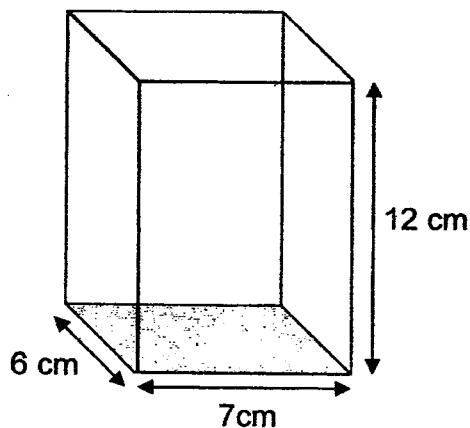
10 832, 18 230 , 10 823, 18 302

Ans: _____, _____, _____, _____

17. In 630.481, the digit in the hundredths place is _____.

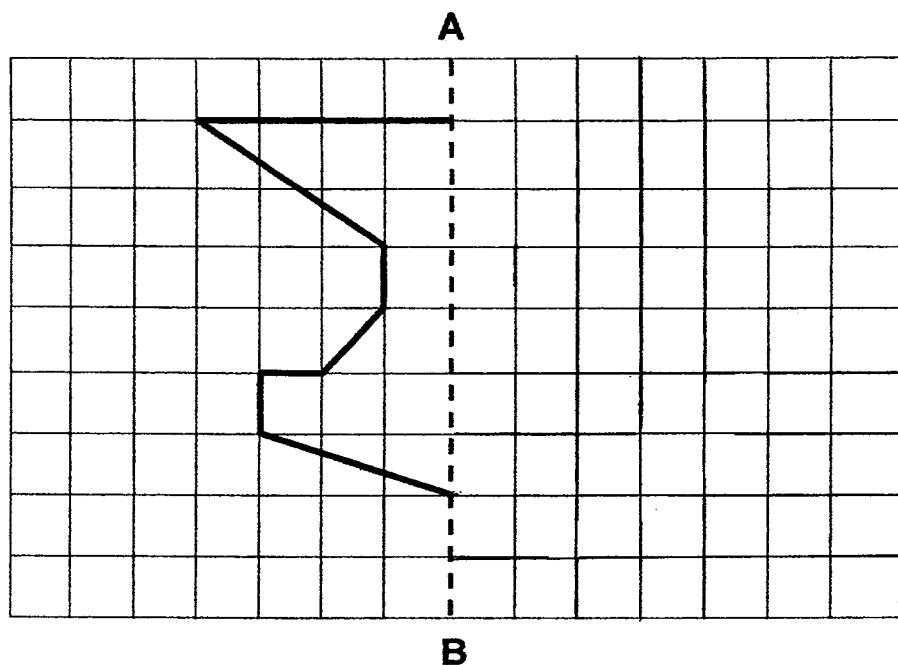
Ans: _____

18. The diagram below shows a cuboid.
Find the volume of the cuboid, given that its height is 12 cm.



Ans: _____ cm^3

19. Given that AB is a line of symmetry, complete the figure below.



20. Find the value of $\frac{5}{6} \times \frac{9}{10}$.

Ans: _____

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

21. Yuki jogged 20 km on Monday. The distance she jogged on Tuesday was $\frac{3}{8}$ the distance she jogged on Monday. What was the difference between the distance she jogged on Monday and Tuesday?

Ans: _____ km

22. An empty bookshelf weighs $10\frac{1}{2}$ kg. After placing some books on the bookshelf, it weighs $13\frac{3}{4}$ kg. Find the mass of the books.

Express your answer in decimal.

Ans: _____ kg

23. 5 notebooks are sold for \$2.70. How much would 20 such notebooks cost?

Ans: \$ _____

24. Find the value of $20\frac{1}{8} + 4.16 + 45$.
Round your answer to 1 decimal place.

Ans: _____

25. At a concert, $\frac{9}{20}$ of the audience are adults, $\frac{1}{4}$ of the audience are boys and the rest are girls. What is the ratio of the number of girls to the number of boys at the concert?

Ans: _____

26. Ali puts some 50-cent and 20-cent coins in a box. There are 72 more 20-cent coins than 50-cent coins in the box. The total value of 50-cent coins is \$12 more than the total value of 20-cent coins.
What is the number of 50-cent coins in the box?

Ans: _____

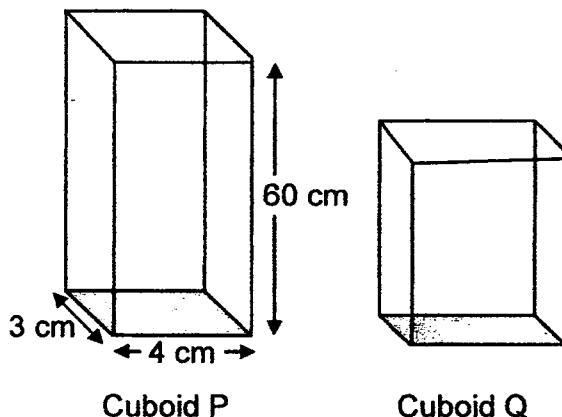
27. $312 \times 10 + (2496 \div 8) \times (35 - 5) = \underline{\hspace{2cm}}$

Ans: _____

28. The height of a square-based cuboid is $\frac{2}{3}$ of its breadth. The cuboid has a base area of 144 cm^2 . Find the volume of the cuboid.

Ans: _____ cm^3

29. The diagram below shows cuboid P and cuboid Q with identical base area.
The capacity of cuboid P is 2 times the capacity of cuboid Q.
Find the volume of cuboid Q.



Ans: _____ cm^3

30. There are some adults and children at a fun fair. $\frac{3}{5}$ of them are children.
 $\frac{1}{5}$ of them are women. There are more boys than girls.

Based on the information above, put a tick in the correct box.

	True	False	Impossible to tell
a) There is an equal number of men and women			
b) There are more girls than men.			

End of Paper
☺ Please check your work carefully ☺

**SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Math Teacher : _____

Date: 8 May 2017 Duration: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.
Figures are not drawn to scale.

For questions which require units, give your answers in the units stated.

Answers in fractions or ratio must be expressed in the simplest form. (10 marks)

1. Mr Wong bought $4\frac{8}{9}$ kg of sugar. He used $\frac{1}{4}$ of the sugar to bake some cakes.
How much sugar was left?

Ans : _____ kg [2]

2. In 2016, Mrs Lee's age was a multiple of 7 while Mrs Tan's age was a multiple of 12. Each of their ages was below 100 years and the difference in their ages was 28 years. What was Mrs Lee's age in 2016?

Ans : _____ [2]

3. Fill in the missing number in the number pattern below.

$$1\frac{1}{4}, 1\frac{3}{8}, \underline{\hspace{2cm}}, 2, 2.5, 3\frac{1}{8}$$

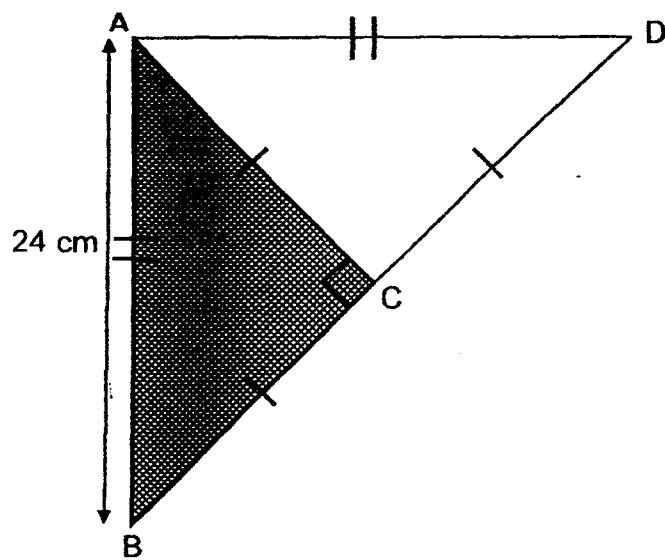
Ans : _____ [2]

4. Jane is $\frac{1}{4}$ as tall as Ben. The ratio of Ben's height to Li Zhen's height is 5 : 3.

What is the ratio of Jane's height to Ben's height to Li Zhen's height?

Ans : _____ [2]

5. BCD is a straight line. Find the area of the shaded triangle ABC.



Ans: _____ cm^2 [2]

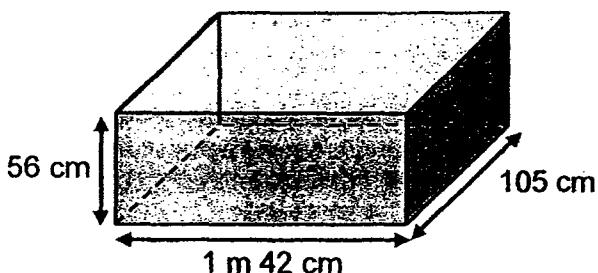
For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in the brackets [] at the end of each question or part-question.

Figures are not drawn to scale.

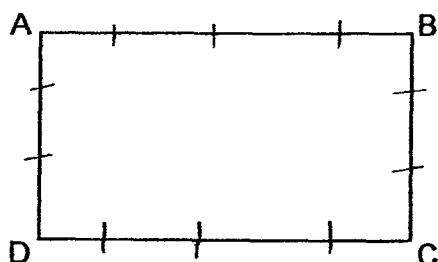
Answers in fractions or ratio must be expressed in the simplest form. (45 marks)

6. In the figure below, $\frac{3}{7}$ of the tank is filled with some water. How much more water is needed to fill the tank to its brim? Express your answer in litres.



Ans : _____ [3]

7. The figure below shows a rectangle ABCD. The ratio of AB to BC is 3 : 2. AB is 90 cm. What is the perimeter of rectangle ABCD?



Ans: _____ [3]

8. At a shop, 5 m of ribbon was sold at \$7.20. Mrs Robinson bought 10 m of ribbon and had \$18 left. If she wanted to buy 30 m of ribbon, how much more money would she need?

Ans : _____ [4]

9. Ali had 252 oranges and some apples. He used $\frac{3}{4}$ of his oranges to make orange juice. The ratio of the number of oranges to the number of apples was 7 : 13 in the end.
- How many apples did Ali have at first?
 - What was the ratio of the number of oranges to the number of apples at first?
- Give your answer in the simplest form.

Ans : a) _____ [3]

b) _____ [1]

10. Tank A and Tank B had 10.8 m^3 of water. After 1.045 m^3 of water was poured from Tank A to B, Tank A had three times as much water as Tank B. How much water was in Tank A at first?
(Round your answer to 1 decimal place)

Ans: _____ [3]

11. Jason has a collection of 200 toy vehicles. $\frac{1}{4}$ of them are buses. $\frac{1}{6}$ of the remainder are trucks. The rest of them are cars. How many cars are there?

Ans: _____ [3]

12. Devi had $\frac{5}{7}$ as many books as Sarah. Sarah had $\frac{7}{8}$ as many books as Hamidah.

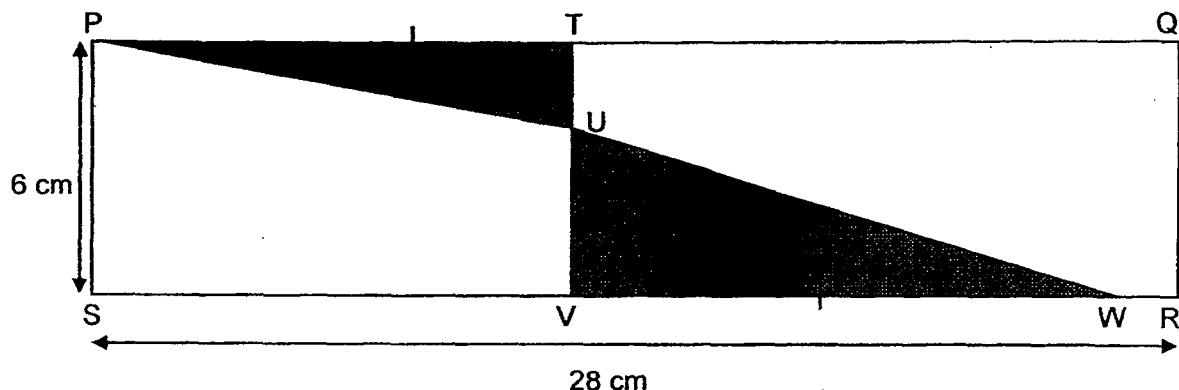
After Devi and Hamidah gave a total of 85 books to Sarah, Sarah had 3 times as many books as Devi. Hamidah then had as many books as Devi.

- a) What was the ratio of the number of books Devi had to the number of books Sarah had to the number of books Hamidah had in the beginning?
Give your answer in the simplest form.
- b) How many books did Sarah have in the end?

Ans: a) _____ [1]

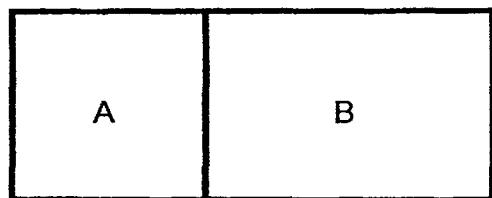
b) _____ [3]

13. In the figure, PQRS is a rectangle. $SR = 28$ cm. $PS = 6$ cm. The area of triangle PTU is 12 cm^2 . $PT = VW$. The length of TU is half of UV. Find the area of the unshaded parts.



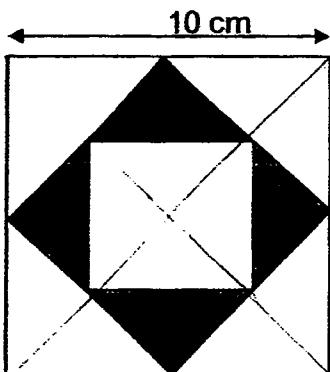
Ans: _____ [4]

14. The figure below is made up of square A and rectangle B. The length of rectangle B is 3 cm longer than its breadth. The area of the figure is 90cm^2 . Find the perimeter of the figure.



Ans: _____ [4]

15. The figure below is formed with three squares. What is the area of the 4 shaded triangles?



Ans: _____ [3]

16. Mr Tan collected \$18 760 after selling some chairs and tables. He sold 4 times as many chairs as tables. He collected \$7672 more for the chairs than the tables. Each table cost \$80 more than a chair. Find the price of the table.

Ans : _____ [5]

17. Kim Hui had \$158 more than Dinesh. At a furniture mall, Kim Hui bought 2 chairs and 5 stools while Dinesh bought 3 chairs and 2 stools. Each chair that they bought cost 3 times as much as a stool.
- (a) After buying the chairs and stools, did the difference between the amount of money Kim Hui and Dinesh had left increase, decrease or remain the same?
- (b) Kim Hui had \$455 at first. The amount of money Dinesh had at first was 3 times as much as what he had left in the end. Find the price of a chair.

Ans: (a) _____ [1]

(b) _____ [4]

End of Paper
Please check your work carefully ☺

School: Raffles
 Level: P5
 Subject: Maths
 Term: SA1
 Year: 2017

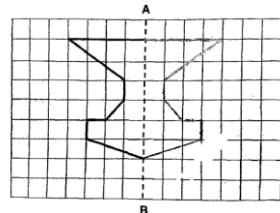
Q1	Q2	Q3	Q4	Q5
3	2	2	1	4
Q6	Q7	Q8	Q9	Q10
2	1	4	4	3
Q11	Q12	Q13	Q14	Q15
2	1	2	3	3

Q16)
 10823, 10832,
 18230, 18302

Q17) 8

Q18) $6 \times 7 \times 12$
 = 504

Q19)



Q20) $\frac{3}{4}$

Q21) 12.5

Q22) 3.25

Q23) \$10.80

Q24) 69.3

Q25) girl:boy
 6 : 5

Q26) 88

Q27) 12480

Q28) 1152

Q29) 360

Q30) a) True
 b) not given

Paper 2

Q1) $1 - \frac{1}{4} = \frac{3}{4}$

$4\frac{8}{9} = \frac{44}{9}$

$\frac{3}{4} \times \frac{44}{9} = \frac{132}{36} = 3\frac{2}{3}$

Q2) 56 years old

$1\frac{5}{8}$

Q4) 5 : 20 : 12

Q5) $0.5 \times 24 \times 24 = 288 \div 2 = 144$

Q6) $56 \times 105 \times 142 = 834960$

$834960 \div 7 \times 4 = 477120$

$477120 \text{ cm}^3 = 477120 \text{ mL} = 477.12 \text{ mL}$

Q7) $90 \div 3 \times 10 = 300$

- Q8) $10 \div 5 = 2$
 $\$7.20 \times 2 = \14.40
 $\$14.40 + \$18 = \$32.40$
 $30 \div 5 = 6$
 $\$7.20 \times 6 = \43.20
 $\$43.20 - \$32.40 = \$10.80$
- Q9) a) $252 \div 4 = 63$
 $63 \div 7 = 9$
 $9 \times 13 = 117$
 b) $252 : 117 = 28 : 13$
- Q10) $10.8 \div 4 = 2.7$
 $2.7 \times 3 = 8.1$
 $8.1 + 1.045 = 9.145 \approx 9.1 \text{ m}^3$
- Q11) $\frac{3}{4} \times \frac{5}{6} \times 200 = 125$
- Q12) a) Devi : Sarah : Hamidah = 5 : 7 : 8
 b) $5u = 85$
 $1u = 85 \div 5 = 17$
 $12u = 17 \times 12 = 204$
- Q13) TU $\rightarrow 6 \div 3 = 2$
 PT $\rightarrow 12 \times 2 \div 2 = 12$
 UV $\rightarrow 2 \times 2 = 4$
 UVW $\rightarrow \frac{1}{2} \times 4 \times 12 = 24$
 $6 \times 28 = 168$
 $24 + 12 = 36$
 $168 - 36 = 132$
- Q14) Length of B = 9
 Length of A = 6
 Height of A and B = 6
 $6 + 6 + 6 + 9 + 9 + 6 = 42 \text{ cm}$
- Q15) $10 \times 10 = 100$
 $100 \div 16 = 6.25$
 $6.25 \times 4 = 25 \text{ cm}^3$
- Q16) $(18760 - 7672) \div 2 = 5544 \text{ (tables)}$
 $5544 + 7672 = 13216 \text{ (chairs)}$
 1u of tables $\rightarrow 5544$
 1u of chairs $\rightarrow 13216 \div 4 = 3304$
 Diff of 1 item $\rightarrow \$80$
 Diff of 1u of items $\rightarrow \$5544 - \$3304 = \$2240$
 Number of items in 1u $\rightarrow \$2240 \div \$80 = 28$
 $5544 \div 28 = \$198$

- Q17) a) Remains the same
b) $455 - 158 = 297$
 $297 \div 3 = 99$
 $99 \times 2 = 198$
 $198 \div 11 = 18$
 $18 \times 3 = 54$

End

**SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form Class: P5 _____ Math Teacher: _____

Date: 26 Oct 2016 Duration: 50 min

Your Paper 1 Score (Out of 40 marks)	
Your Paper 2 Score (Out of 60 marks)	
Your Total Score (Out of 100 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. **NO** calculator is allowed for this paper.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

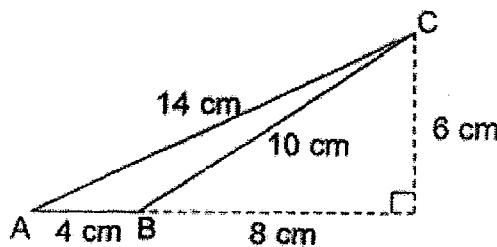
1. Round off 96.875 to the nearest hundredths.

- (1) 96.87
- (2) 96.88
- (3) 97
- (4) 100

2. Which of the following is equivalent to $8\frac{1}{6}$?

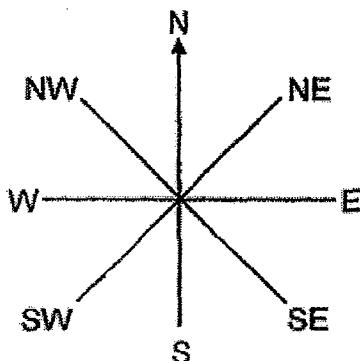
- (1) $\frac{9}{6}$
- (2) $\frac{14}{6}$
- (3) $\frac{48}{6}$
- (4) $\frac{49}{6}$

3. Find the area of triangle ABC.

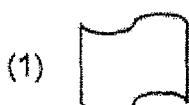


- (1) 12 cm^2
- (2) 20 cm^2
- (3) 28 cm^2
- (4) 36 cm^2

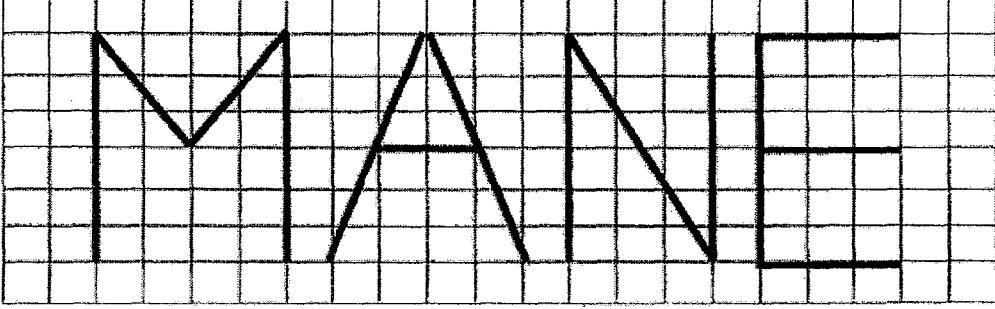
4. The figure shows an 8-point compass. After turning 225° clockwise, John was facing north-east (NE). Which direction was he facing at first?



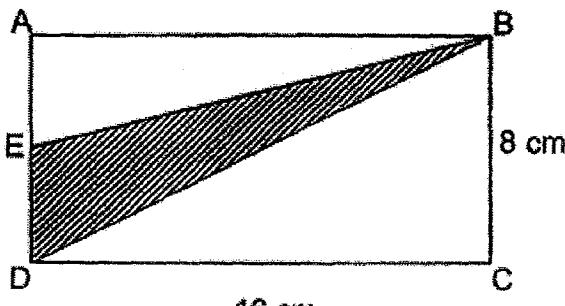
- (1) East
(2) West
(3) North
(4) South
5. Which one of the shapes below cannot be tessellated?



6. The price of a car is \$190 000 when rounded off to the nearest ten thousand dollars. Which of the following can be the greatest possible price of the car?
- (1) \$184 999
(2) \$189 999
(3) \$194 999
(4) \$195 999
7. At a closing down sale, Fatimah enjoyed a discount of 40% and paid \$300 for a leather handbag. What was the usual price of the handbag?
- (1) \$450
(2) \$500
(3) \$750
(4) \$1200
8. Express $8\frac{3}{8}$ as a decimal.
- (1) 8.125
(2) 8.3
(3) 8.375
(4) 8.38
9. 45 children signed up for a robotics workshop. 27 of them were boys. What was the ratio of the number of girls to the number of boys?
- (1) 2 : 3
(2) 2 : 5
(3) 3 : 2
(4) 5 : 3

10. The average mass of a group of 4 children is 40 kg.
The individual masses for 3 of them are 42 kg, 38 kg and 46 kg.
Find the mass of the 4th child.
- (1) 34 kg
(2) 38 kg
(3) 40 kg
(4) 44 kg
11. In the diagram below, the following letters are drawn on a grid.
Which letter does not have a line of symmetry?
- 
- (1) M
(2) A
(3) N
(4) E
12. Alice and Bill each had a sum of money in the ratio of 3 : 4. They bought a necklace worth \$70 for their mother and shared the cost of the necklace equally. After that, the ratio of Alice's remaining money to the ratio of Bill's remaining money is 2 : 5. How much money did Alice have at first?
- (1) \$45
(2) \$90
(3) \$105
(4) \$210

13. In the figure below, ABCD is a rectangle. E is the midpoint of AD. Find the area of triangle EBD.



- (1) 16 cm^2
(2) 32 cm^2
(3) 64 cm^2
(4) 128 cm^2
14. Mary gave $\frac{1}{3}$ of her stamps to her brother and $\frac{1}{2}$ of her stamps to her sister. She used $\frac{1}{4}$ of the remaining stamps. What fraction of her stamps was left?

- (1) $\frac{1}{6}$
(2) $\frac{1}{8}$
(3) $\frac{1}{12}$
(4) $\frac{1}{24}$
15. A 2-digit number when divided by 40 gives a remainder of 9. Which of the following can be added to the number to change it to a multiple of 12?
- (1) 20
(2) 11
(3) 3
(4) 8

Questions 16 to 25 carry 1 mark each.

Write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following from the largest to the smallest.

$$1.07, 1 \frac{1}{5}, 1.7, \frac{10}{7}$$

Ans: _____, _____, _____, _____

17. A ball-point pen costs \$1.55. How much will 30 similar ball-point pens cost?

Ans: \$_____

18. There are four children in the Koh family.

Kathy is younger than Chris.

Wendy is older than Kathy.

Jac is younger than Wendy but older than Chris.

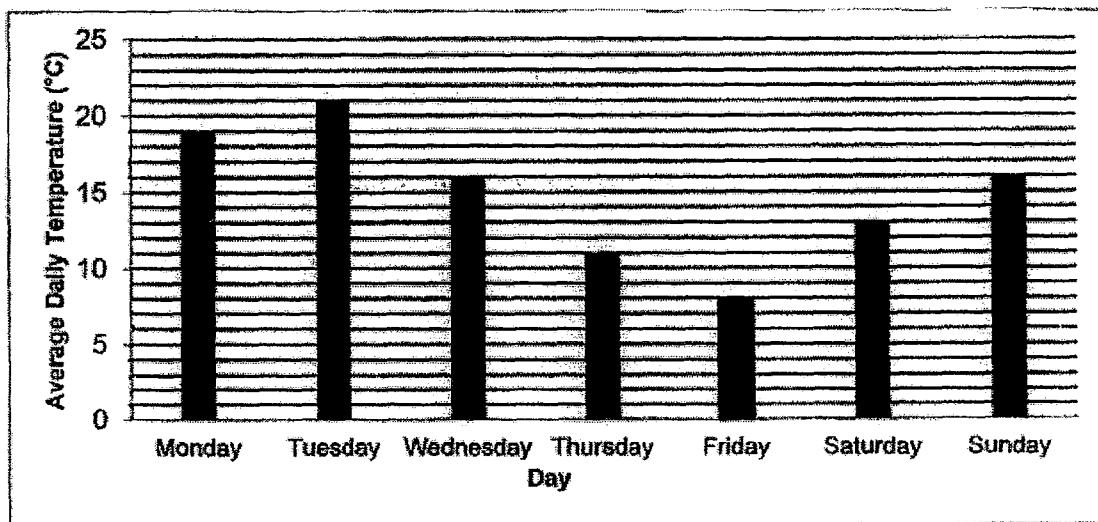
Who is the third child in the Koh family?

Ans: _____

19. Find the value of $\frac{3}{8} \div 6$.

Ans: _____

20. The bar graph below shows the average daily temperature experienced by Country X in a week.



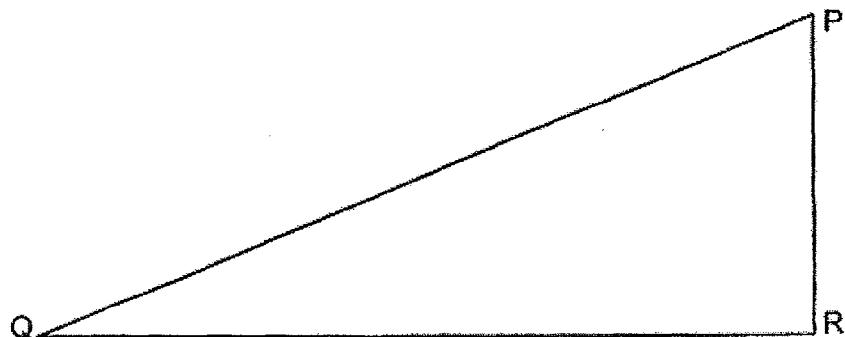
What was the difference in the highest and lowest average daily temperatures in that week?

Ans: _____ °C

21. Aisha saved \$250 and her sister saved twice as much as her. Aisha's brother saved \$100 less than Aisha. What was the average savings of Aisha and her siblings?

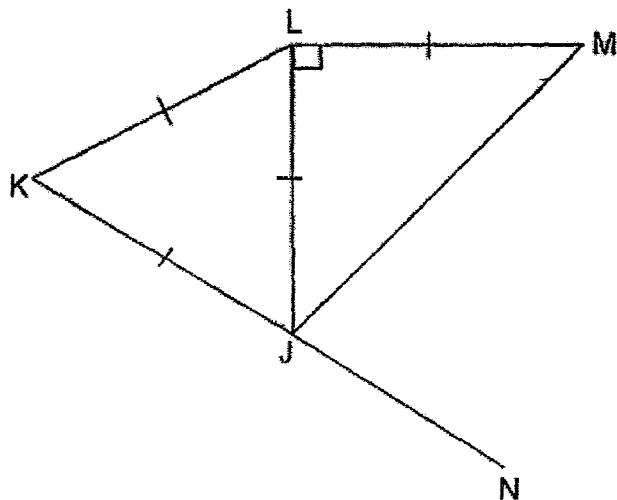
Ans: \$ _____

22. Measure and write down the size of $\angle PQR$.



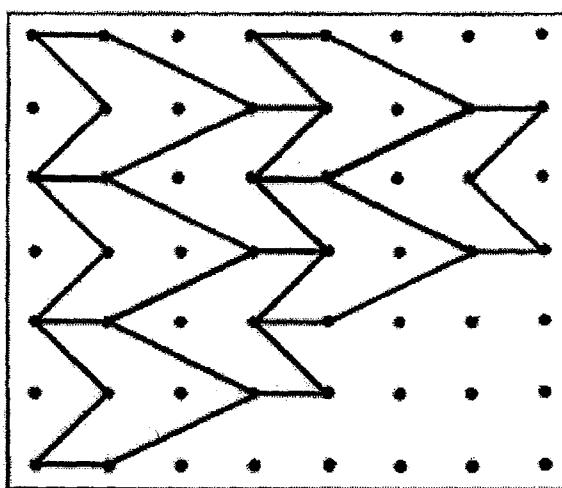
Ans: _____

23. In the figure below, KJN is a straight line, LMJ is an isosceles triangle and KJL is an equilateral triangle. Find $\angle MJN$.



Ans: _____ °

24. The pattern in the box below shows part of a tessellation.
Extend the tessellation by drawing two more unit shapes in the space provided within the box.



25. There were 120 people at a conference. 84 of them were men.
What percentage of the people at the conference were women?

Ans: _____ %

Questions 26 to 30 carry 2 marks each.

Show your working clearly in the space provided for each question and write your answers in the space provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

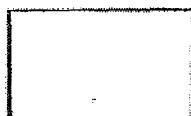
Answers in fractions or ratio must be expressed in the simplest form.

26. Auntie Sally uses 60 g of flour to make 7 cupcakes. How many kilograms of flour does she need to make 420 cupcakes?

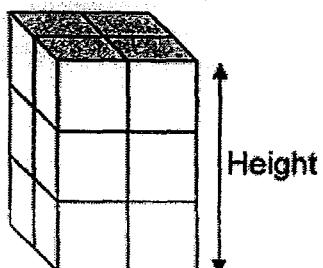
Ans: _____ kg

27. Express $9\frac{2}{3}$ as a decimal. Round off your answer to 2 decimal places.

Ans: _____



28. The figure shows a cuboid that is formed by putting 12 identical cubes together. The volume of the cuboid is 96 cm^3 . Find the height of the cuboid.



Ans: _____ cm

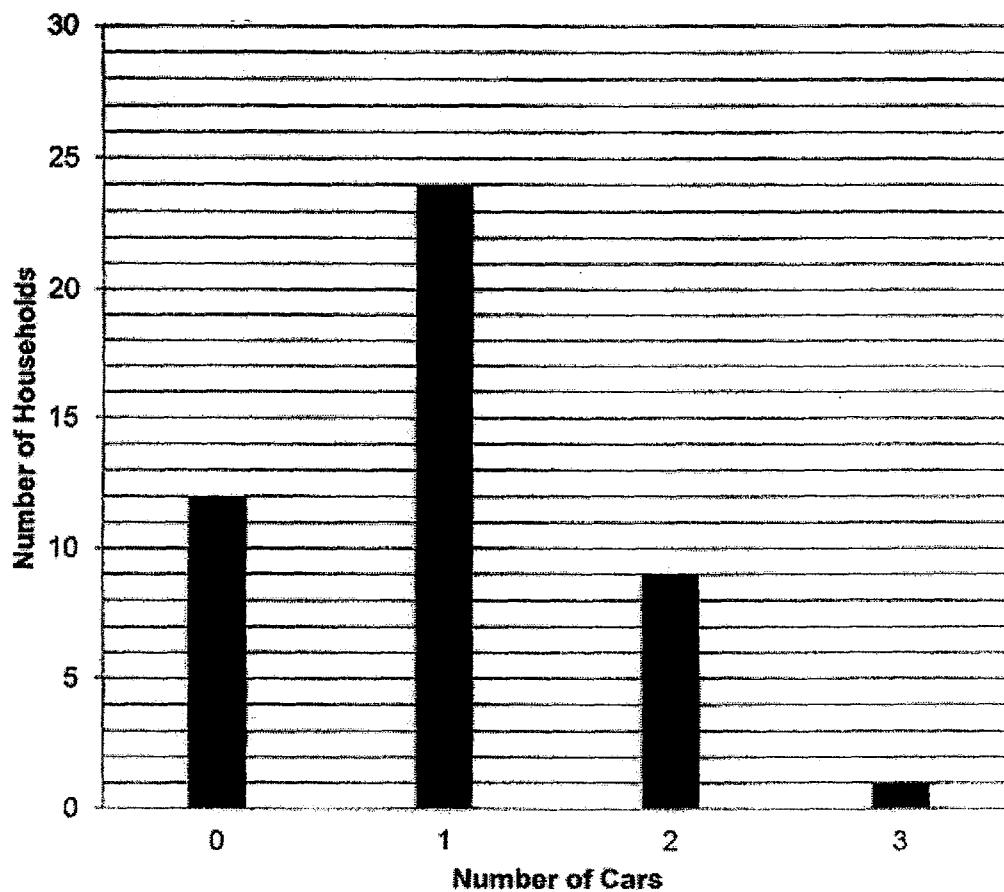
29. In the space below, draw and label a triangle EFG in which $EF = 8 \text{ cm}$, $\angle EFG = 40^\circ$ and $\angle FEG = 75^\circ$. The line EF has been drawn for you.

E

F



30. The bar graph below shows the number of cars each household has in Neighbourhood Z.



What is the total number of cars owned by the households in Neighbourhood Z?

Ans: _____

End of Paper
◎ Please check your work carefully ◎



**SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Math Teacher: _____

Date: 26 Oct 2016 Duration: 1 h 40 min

Your Paper 2 Score (Out of 60 marks)	
---	--

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

Figures are not drawn to scale.

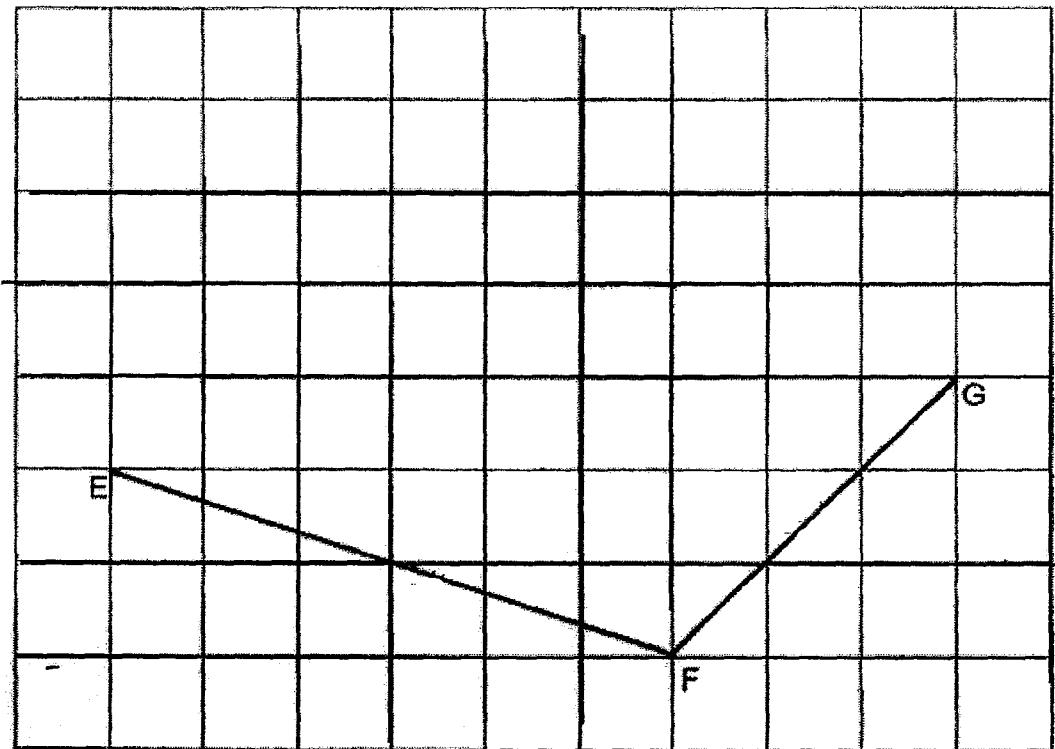
For questions which require units, give your answers in the units stated. (10 marks)

1. $6\frac{5}{8}$ kg of rice was packed equally into 5 bags.

How many grams of rice would there be in each bag?

Ans: _____ g [2]

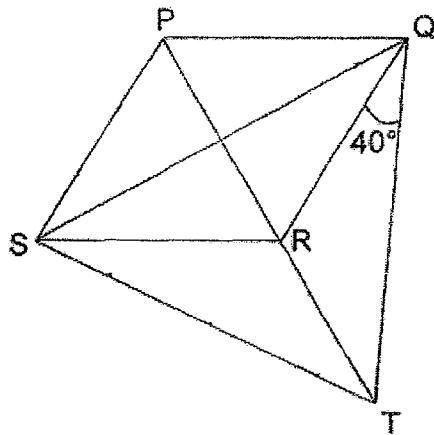
2. Draw a parallelogram EFGH within the grid provided. Sides EF and FG have been drawn for you. [2]



3. Bala had 104 more marbles than Ravi. After Ravi lost 38 marbles to Bala, Bala had 5 times as many marbles as Ravi.
How many marbles did Ravi have at first?

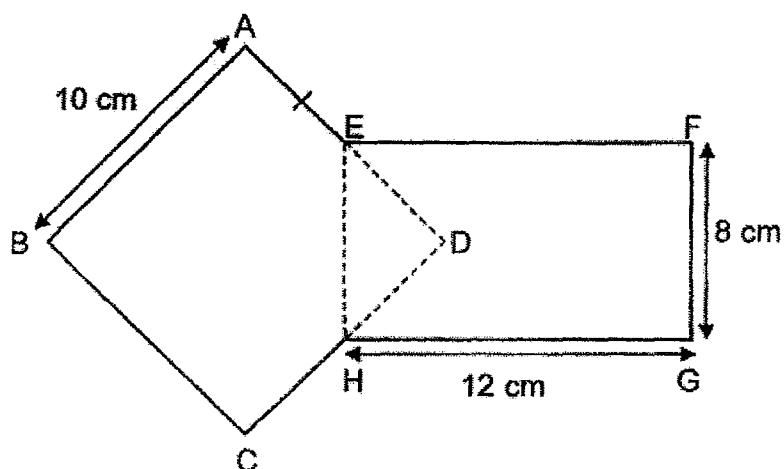
Ans: _____ [2]

4. In the figure below, PRT is a straight line. PQRS is a rhombus and QTS is an isosceles triangle. Find $\angle RTS$.



Ans: _____ [2]

5. The figure shown below is cut from a piece of paper. ABCD is a square and EFGH is a rectangle. Find the area of the figure.



Ans: _____ cm² [2]



For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

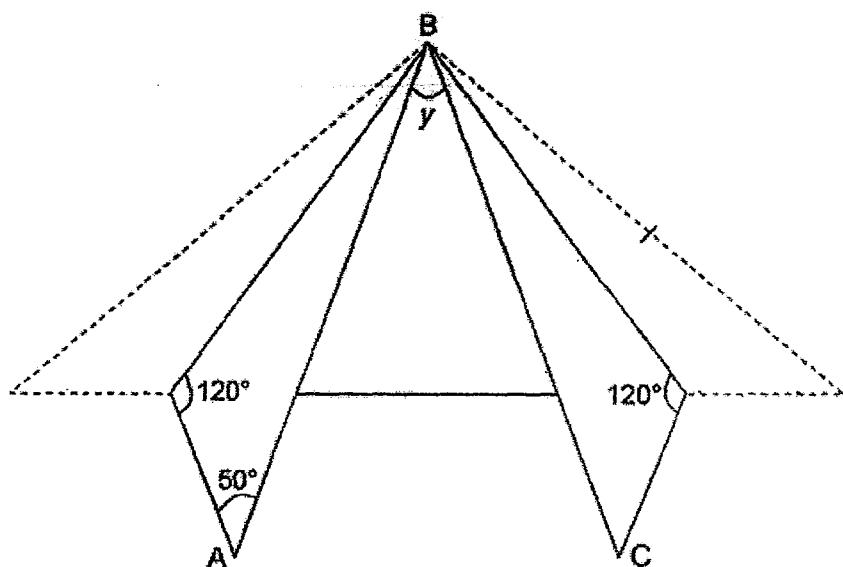
Figures are not drawn to scale.

The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. The average of 12 numbers is 34. If 3 of the numbers are excluded, the average of the remaining numbers is reduced to 29. Find the sum of these 3 numbers.

Ans : _____ [3]

7. The diagram below shows an isosceles triangular piece of paper, ABC. The paper is folded at two of its corners, A and C. Find $\angle y$.



Ans: _____ [3]

8. A sum of money can be used to buy either 8 identical diaries or 20 identical calendars. Each diary cost \$14.10 more than each calendar. How much did each calendar cost?

Ans: _____ [3]

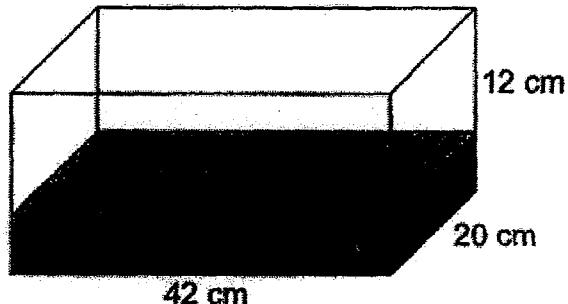


9. 32 cartons of mangoes were delivered to Mr Lim's fruit stall.
Each carton contained 48 mangoes. For every 4 cartons, 9 rotten mangoes were thrown away. The remaining mangoes were packed into bags of 6 and each bag was sold for \$15.
What was the total amount of money Mr Lim collected when all the bags of mangoes were sold?

Ans: _____ [4]



10. The tank measuring 42 cm by 20 cm by 12 cm was $\frac{1}{5}$ filled with water. After some water was added into the tank, the tank became $\frac{3}{4}$ full. How much water was added to the tank?



Ans : _____ [3]

11. Meg, Jo and Beth shared a sum of money. Beth had 3 times the amount of money that Jo had. The ratio of the amount of money Beth had to the total amount of money Meg and Jo had was 4 : 5. Meg and Beth had \$299 altogether.
- What was the sum of money shared by the three girls?

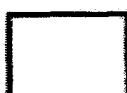
Ans: _____ [3]

12. Uncle Ravi organised a lucky draw event . He spent \$382.20 on some soft toys and keychains. He bought 6 more keychains than soft toys. A soft toy costs \$14.70 and a keychain costs \$4.90. How many keychains did Uncle Ravi buy?

Ans : _____ [5]

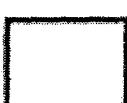
13. Hazel had 520 beads. 35% of her beads were black and the rest were red. After using 95 beads to make a necklace, 40% of the remaining beads were black. How many red beads did she use?

Ans: _____ [4]

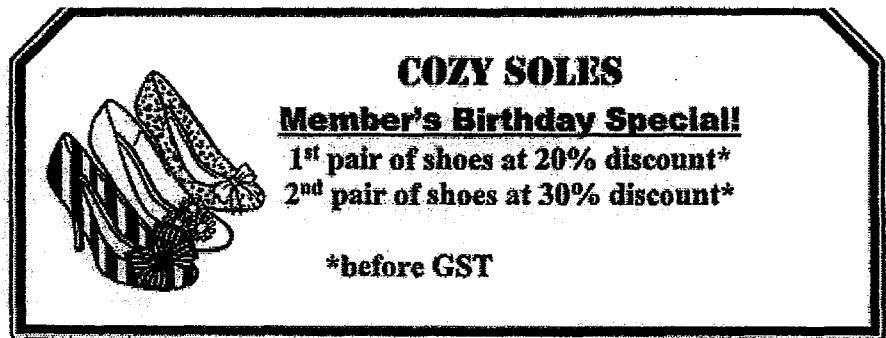


14. At a supermarket, Mr Teo bought 300 g of fish and 400 g of meat for \$21.10. At the same supermarket, Mrs Peng bought 200 g of fish and 300 g of meat for \$14.60. If Mrs Peng were to buy another 1.6 kg of fish, how much would she have to pay in total?

Ans: _____ [4]



15.



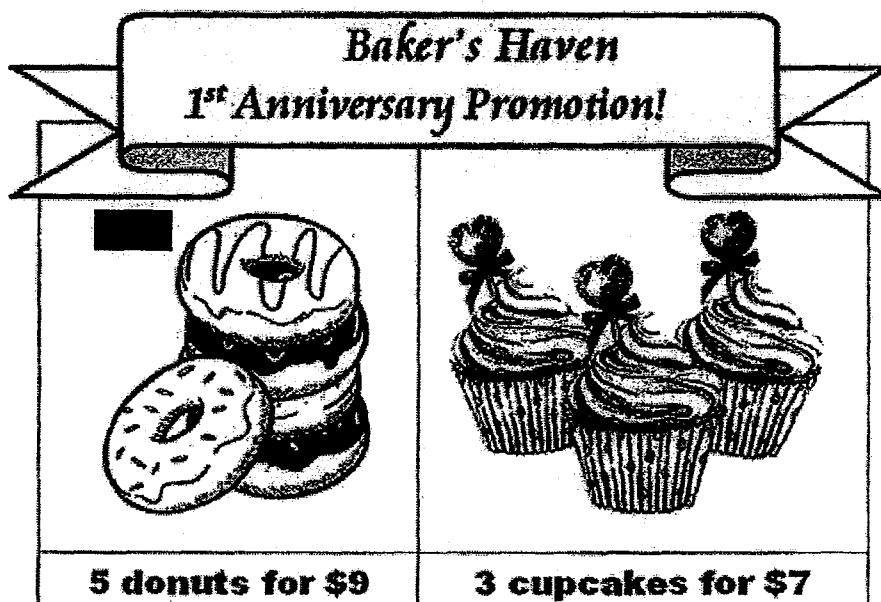
Michelle bought 2 pairs of shoes at the store and paid a total amount of \$262.15 including 7% GST.

- (a) How much did the 2 pairs of shoes cost before GST?
- (b) The usual price for Michelle's second pair of shoes was \$190 before GST.
What was the usual price of her first pair of shoes before GST?

Ans : (a) _____ [1]

(b) _____ [4]

16. Bake's Haven was having its 1st anniversary promotion for donuts and cupcakes at the prices shown below



Mrs Kim spent an equal amount of money on the donuts and cupcakes for her company party. She bought 40 more donuts than cupcakes.

What was the total number of donuts and cupcakes bought by Mrs Kim?

Ans: _____ [4]

17. Jane only had 20c coins and George only had 50c coins . Jane had 200 conis . The ratio of the number of Jane's coins to the number of George's coins was 5 : 1. After Jane gave some of her coins to George, the ratio of the number of Jane's coins to the number of George's coins became 2 : 7.
- (a) How many coins did Jane give to George?
- (b) What was the total value of coins George had in the end?

Ans: (a) _____ [2]

(b) _____ [3]

18. Helen had 248 marbles more than Ali. After Helen gave $\frac{3}{4}$ of her marbles to Ali,
Ali had 364 marbles more than Helen. How many marbles did Ali have at first?

Ans: _____ [4]

End of Paper
Please check your work carefully ☺

Setters : Mrs J Seto
Ms Lim LS
Mdm Tan LZ



ANSWER SHEET

EXAM PAPER 2016 (P5)

SCHOOL : RAFFLES GIRLS'

SUBJECT : MATHEMATICS

TERM : SA2

ORDER CALL : MR GAN @ 92998971 92475053 86065443

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	1	4	4	3	2	3	1	1
Q11	Q12	Q13	Q14	Q15					
3	1	2	2	2					

16) $1.7, 10/7, 11/5, 1.07$

17) \$46.50

18) Chris

19) $1/16$

20) 13°C

21) 300

22) 23°

23) 75°

24)

25) 30%

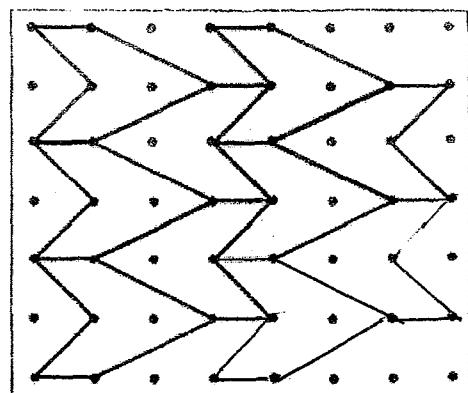
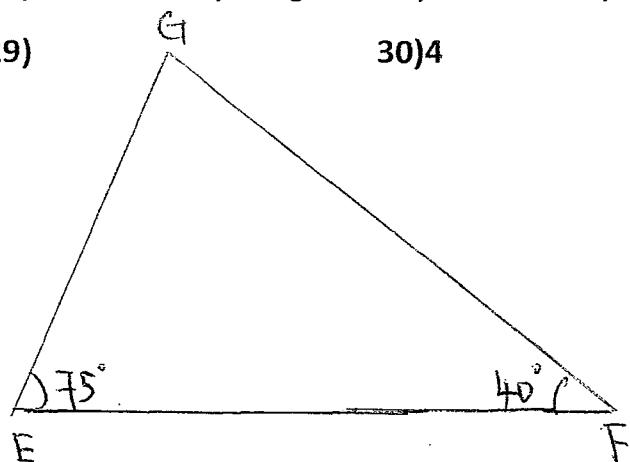
26) 3.6kg

27) 9.67

28) 6cm

29)

30) 4

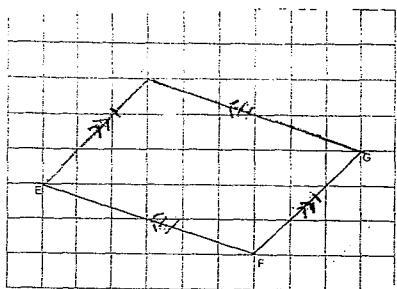


Paper 2

$$1) 5/8 = 0.625$$

$$6.625 \div 5 = 1.325\text{g}$$

2)



$$3) 4u \rightarrow 38 + 104 + 38 = 180$$

$$1u \rightarrow 45$$

$$45 + 38 = 83$$

$$4) 30 \times 2 = 60$$

$$180 - 60 = 120$$

$$360 - 120 = 240$$

$$240 \div 2 = 120$$

$$120 + 40 = 160$$

$$180 - 160 = 20^\circ$$

$$5) 10 \div 2 = 5$$

$$\frac{1}{2} \times 5 \times 5 = 12.5$$

$$10 \times 10 = 100$$

$$12 \times 8 = 96$$

$$96 - 12.5 = 83.5$$

$$83.5 + 100 = 183.5\text{cm}^2$$

$$6) 12 \times 34 = 408$$

$$12 - 3 = 9$$

$$9 \times 29 = 261$$

$$408 - 261 = 147$$

$$7) 120 \div 50 = 170$$

$$180 - 170 = 10$$

$$10 \times 4 = 40$$

$$50 \times 2 = 100$$

$$100 + 40 = 140$$

$$180 - 140 = 40^\circ$$

$$8) 8 \times 14.10 = 112.80$$

$$8u + 112.80 = 20u$$

$$20u - 8u = 112.80$$

$$12u = 112.80$$

$$1u = 112.80 \div 12 = \$9.40$$

$$9) 48 \times 32 = 1536 \text{ (mangoes altogether)}$$

$$32 \div 4 = 8$$

$$8 \times 9 = 72 \text{ (rotten mangoes)}$$

$$1536 - 72 = 1464 \text{ (remaining mangoes)}$$

$$1464 \div 6 = 244 \text{ (no.of bags)}$$

$$244 \times 15 = \$3660$$

$$10) 42 \times 20 \times 12 = 10080$$

$$1/5 \times 10080/1 = 2016$$

$$\frac{3}{4} \times 10080/1 = 7560$$

$$7560 - 2016 = 5544\text{ml}$$

$$11) 15u - 4u = 11u$$

$$11u + 12u = 23u$$

$$23u \rightarrow 299$$

$$1u \rightarrow 299 \div 23 = 13$$

$$12u + 15u = 27u$$

$$27u \rightarrow 13 \times 27 = \$351$$

$$12) 6 \times 4.90 = 29.40$$

$$382.20 - 29.40 = 352.80$$

$$14.70 + 4.90 = 19.60$$

$$352.80 \div 19.60 = 18$$

$$18 + 6 = 24$$

$$13) 35/100 \times 520/1 = 182 \text{ (black beads at first)}$$

$$520 - 182 = 338 \text{ (red beads at first)}$$

$$520 - 95 = 425$$

$$40/100 \times 425/1 = 170 \text{ (black beads in the end)}$$

$$425 - 170 = 255 \text{ (red beads in the end)}$$

$$338 - 255 = 83$$

$$14) 21.10 - 14.60 = 6.50$$

$$100F + 100M = 6.50 \rightarrow 300F + 300M = 19.50$$

$$200F + 300M = 14.60$$

$$100F = 4.90$$

$$1600F = 4.90 \times 16 = 78.40$$

$$14.60 + 78.40 = \$93$$

$$15)a) 262.15 \div 107 = 2.45$$

$$2.45 \times 7 = 17.15$$

$$262.15 - 17.15 = \$245$$

$$b) \text{discounted price of 2}^{\text{nd}} \text{ pair} \rightarrow 70\% \times \$190 = \$133$$

$$\text{discounted price of 1}^{\text{st}} \text{ pair} \rightarrow \$245 - \$133 = \$112$$

$$80\% - \$112$$

$$100\% - (\$112 \div 80) \times 100 = \$140$$

16) Lowest common multiple of 9 and 7 is 63

$$\text{No. of donuts purchased with } \$63 \rightarrow (63 \div 9) \times 5 = 35$$

$$\text{No. of cupcakes purchased with } \$63 \rightarrow (63 \div 7) \times 3 = 27$$

$$\text{Diff between no. purchased for every } \$63 \rightarrow 35 - 27 = 8$$

$$\text{No. of groups} \rightarrow 40 \div 8 = 5$$

$$\text{Total bought} \rightarrow 5 \times (35 + 27) = 310$$

17) J : G : total

5 : 1 : 6

15 : 3 : 18

2 : 7 : 9

4 : 14 : 18

$$3u \rightarrow 17 \times 3 = 51$$

$$11u \rightarrow 17 \times 11 = 187$$

$$187 \times 0.2 = 37.40$$

$$51 \times 0.5 = 25.50$$

$$37.40 + 25.5 = \$62.90$$

a) 187

b) \$62.90

18) Before

Helen $4u + 248$

Ali $4u$

After

Helen $1u + 62$

Ali $4u + 3u + 186$

$$7u + 186 = 1u + 62 + 364$$

$$6u = 426 - 186 = 240$$

$$1u \rightarrow 240 \div 6 = 40$$

$$4u \rightarrow 4 \times 40 = 160$$





RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5

Name: _____ ()

Form Class: P5 _____ Math Teacher : _____

Date: 26 Oct 2017 Duration: 1 hour

Your Paper 1 Score (Out of 45 marks)	
Your Paper 2 Score (Out of 55 marks)	
Your Total Score (Out of 100 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. NO calculator is allowed for this paper.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

1. Find the value of $40 \div 100 \times 10 =$ _____.

- (1) 0.004
- (2) 0.04
- (3) 0.4
- (4) 4

2. The value of the digit 7 in 4.072 is _____.

- (1) 7
- (2) 0.7
- (3) 0.07
- (4) 0.007

3. Round 123.595 to the nearest hundredth.

- (1) 100.00
- (2) 100.60
- (3) 123.59
- (4) 123.60

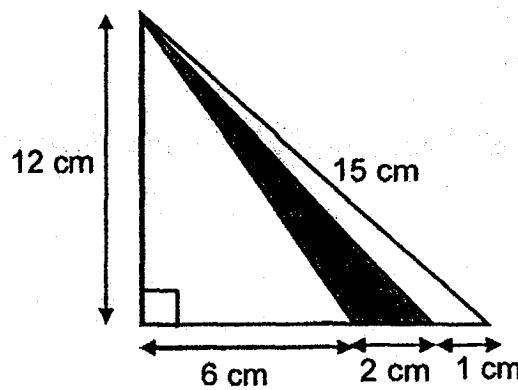
4. Express $4\frac{3}{25}$ as a decimal.

- (1) 4.03
- (2) 4.12
- (3) 4.103
- (4) 4.012

5. Find the value of $8 \times 2\frac{1}{4}$.

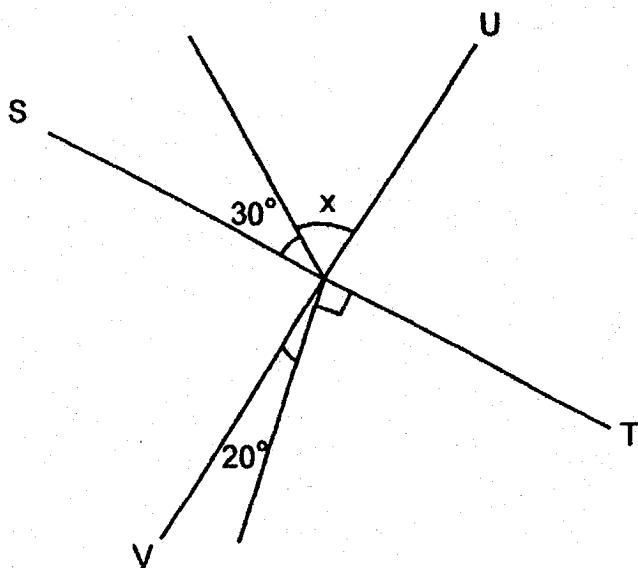
- (1) $4\frac{1}{4}$
- (2) $16\frac{1}{4}$
- (3) 18
- (4) 72

6. In the figure, find the total area of the unshaded parts.



- (1) 12 cm^2
- (2) 36 cm^2
- (3) 42 cm^2
- (4) 84 cm^2

7. In the figure, ST and UV are straight lines. Find $\angle x$.



- (1) 40°
- (2) 60°
- (3) 80°
- (4) 110°

8. Alice bought 27 boxes. Each box contained 24 pens. How many pens did she buy altogether?

- (1) 162
- (2) 548
- (3) 628
- (4) 648

9. $\frac{1}{8}$ of Ali's money is equal to $\frac{5}{48}$ of Shawn's money. What is the ratio of Ali's money to Shawn's money?

- (1) 5 : 6
- (2) 6 : 5
- (3) 1 : 5
- (4) 1 : 6

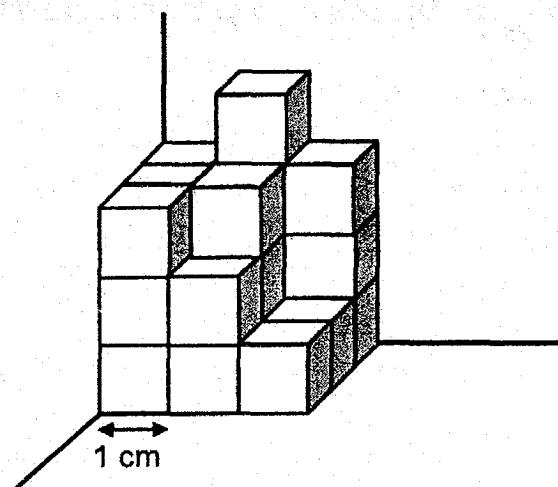
10. What percentage of 2 kg is 5 g?

- (1) 0.25%
- (2) 0.4%
- (3) 25%
- (4) 40%

11. Find the value of $3 + 7$. Round your answer to 2 decimal places.

- (1) 0.42
- (2) 0.43
- (3) 2.33
- (4) 2.34

12. The figure is made up of identical cubes. Find its volume.



- (1) 22 cm^3
- (2) 23 cm^3
- (3) 27 cm^3
- (4) 28 cm^3

13. The average of 3 numbers is 560. The first and second numbers are 124 and 230 respectively. What is the third number?

- (1) 206
- (2) 1326
- (3) 1329
- (4) 1680

14. Ahmad had 500g of flour. He used $\frac{3}{8}$ of the flour to bake some cookies.
How much flour did he have left?

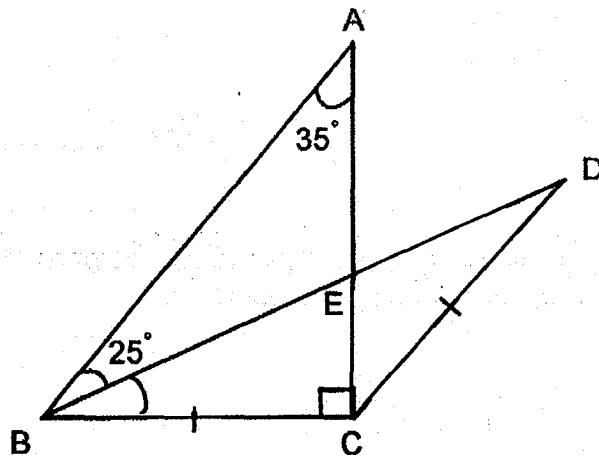
(1) $\frac{5}{16}$ kg

(2) $\frac{3}{16}$ kg

(3) $\frac{1}{8}$ kg

(4) $\frac{7}{8}$ kg

15. In the figure, ABC is a right-angled triangle and BCD is an isosceles triangle.
Find $\angle AED$.



(1) 30°

(2) 35°

(3) 60°

(4) 65°

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. All diagrams
are not drawn to scale. Answers in fractions or ratio must be expressed in the
simplest form.

16. Find the value of $240 \div 4 \times 2 + 51 =$ _____

Ans: _____

17. Convert 10 307m to km.

Ans: _____ km

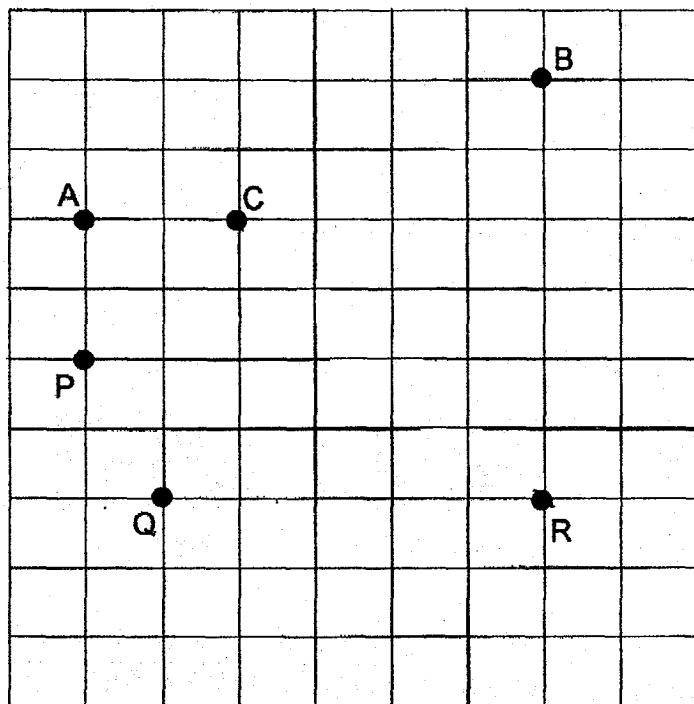
18. 12 children shared 3 pizzas equally among themselves. How much pizza did
each child get? Give your answer in the simplest form.

Ans: _____

19. Find the value of $7\frac{1}{8} - 3\frac{3}{4}$.

Ans: _____

20.



Based on the square grid, point C is north-west of point _____.

Ans: _____

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

21. Arrange the following numbers from the smallest to the greatest.

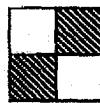
$$\frac{3}{8}, \quad 0.3, \quad 0.37$$

Ans: _____, _____, _____
smallest

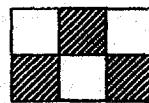
22. Study the pattern carefully.



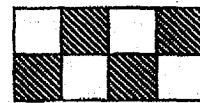
Pattern 1



Pattern 2



Pattern 3



Pattern 4

What is the ratio of the number of shaded squares to the total number of squares in Pattern 45? Express your answer in its simplest form.

Ans: _____

23. Mrs Lee had 15 kg of sugar. She packed the sugar into small packets of 200 g each. How many small packets of sugar did Mrs Lee have?

Ans: _____

24. A box with 26 marbles has a mass of 1.8 kg. The same box with 24 marbles has a mass of 1.38 kg. Find the mass of 1 marble.

Ans: _____ g

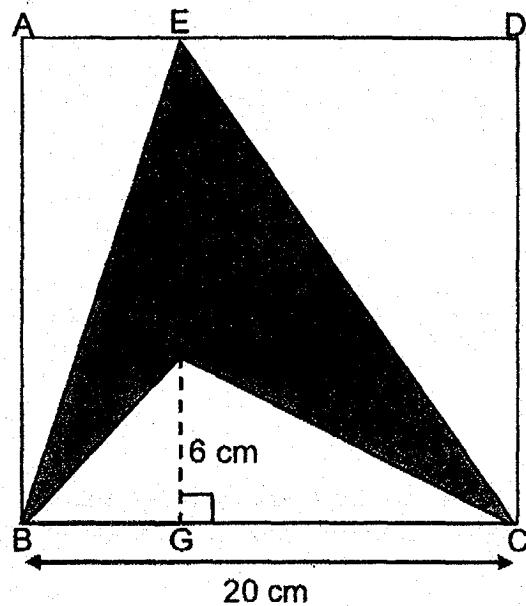
25. Wenhui has 4 l of milk. He used $\frac{3}{5}$ l of the milk to make ice-cream.

How much milk had he left?

Ans: _____ l

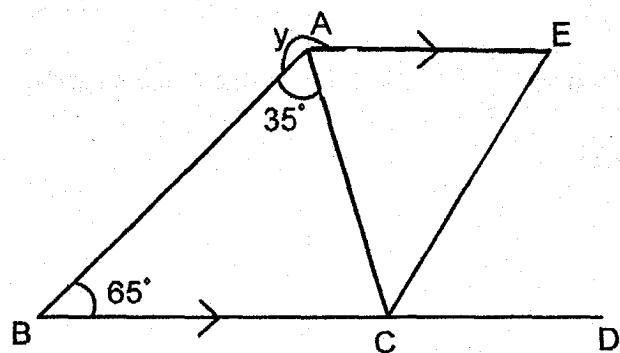
26. ABCD is a square. BC is 20 cm and FG is 6 cm.

Find the shaded area.



Ans: _____ cm²

27. In the figure, AB, AC and AE are straight lines and AE is parallel to BD. $\angle ABC = 65^\circ$ and $\angle BAC = 35^\circ$. Find $\angle y$.



Ans: _____ °

28. Amanda had 180 cards and Ben had 420 cards at first.

After selling an equal number of cards, the number of cards Amanda had left to the number of cards Ben had left was 1 : 3.
How many cards did each of them sell?

Ans: _____

29. The table below shows the number of siblings a group of children has.

Number of Siblings	Number of children
0	17
1	15
2	7
3	1

What is the percentage of children who have at least one sibling?

Ans: _____ %

30. The table shows the parking fee for cars in Hello Shopping Mall.

7 a.m. to 5 p.m.	\$1.50 per hour or part thereof
5 p.m. to 7 a.m.	\$2 per hour or part thereof

Based on the information above, put a tick (\checkmark) in the correct box.

	True	False	Impossible to tell
a) It is cheaper to park the car before 5 p.m. for 7 hours 10 min than to park the car for 7 hours after 5 p.m.			
b) Mr Lim parked his car from 4.30 p.m. to 7 p.m. He paid \$6.50 for his parking fees.			

End of Paper

☺ Please check your work carefully ☺

Setters: Lee SK
Ho KH
Yan YL



RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5

Name: _____ ()

Form class: P5 _____

Math Teacher : _____

Date: 26 Oct 2017

Duration: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

Figures are not drawn to scale.

For questions which require units, give your answers in the units stated.

Answers in fractions or ratio must be expressed in the simplest form. (10 marks)

1. The height of Alan, Ben and Cedric is 1.68 m, 1.77 m and 1.83 m respectively. Find their average height.

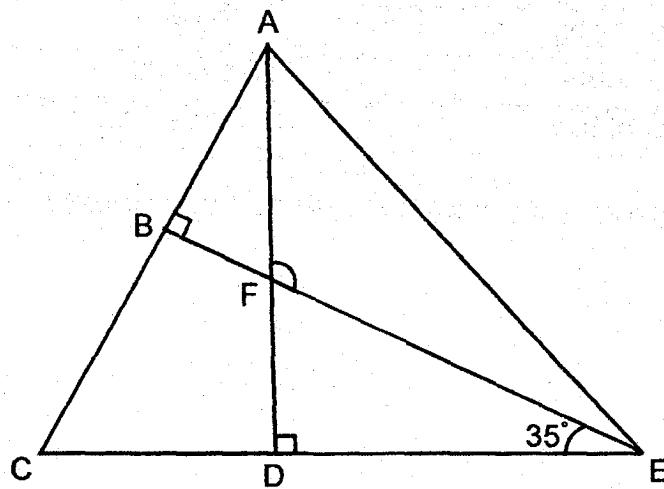
Ans : _____ m [2]

2. The mass of 1 packet of flour is $2\frac{1}{4}$ kg. A bakery bought 25 packets of flour.

How much flour did the bakery buy? Give your answer as a fraction in the simplest form.

Ans : _____ kg [2]

3. In the figure, ACE is a triangle. $\angle FED = 35^\circ$. Find $\angle AFE$.



Ans : _____ ° [2]

4. Dave put \$50 000 in a bank account. After a year, he had \$50 550 in his account. What was the percentage interest paid by the bank at the end of the year?

Ans : _____ % [2]

5. The table below shows the rate at which a waiter is being paid daily at a cafe.

Working hours	Rate
First 8 hours	\$9 per hour
Subsequent hours	\$12.50 per hour

If the waiter works 10 hours a day, how much will he earn in a day?

Ans: \$ _____ [2]

For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in the brackets [] at the end of each question or part-question.

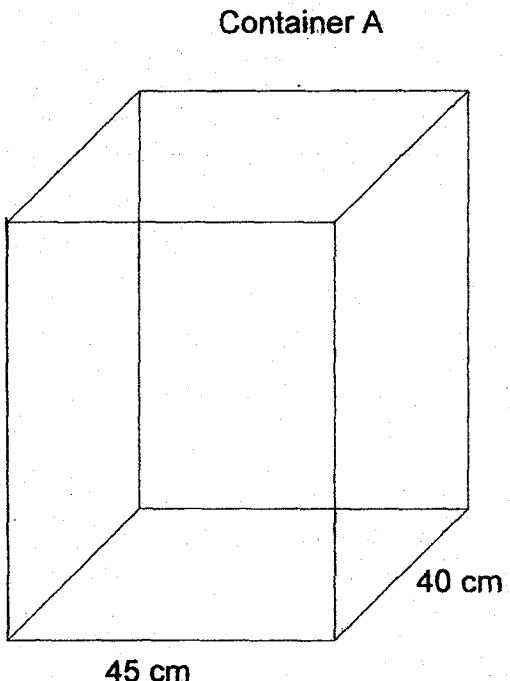
Figures are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form. (45 marks)

6. Siti bought 6 files and 10 pens. 3 files and 4 pens cost \$17.50. The cost of 1 file was twice the cost of 1 pen. How much did Siti pay?

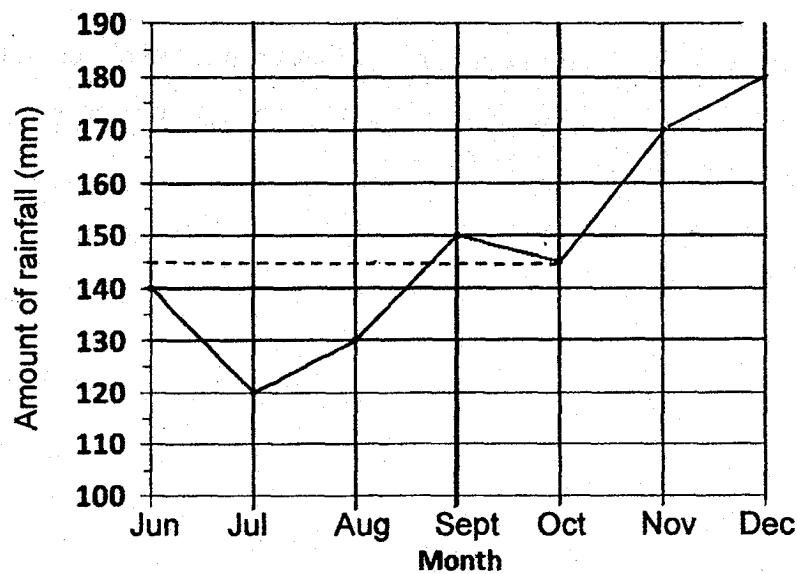
Ans: _____ [3]

7. Joyce poured some water into the empty container A without spilling such that it is $\frac{1}{4}$ full. Later she added $36\ 000\text{cm}^3$ of water to the container and it became $\frac{7}{12}$ full.
- (a) Find the volume of container A in litres.
- (b) Find the volume of water in container A at the end. Give your answer in litres.



Ans : (a) _____ [3]
(b) _____ [1]

8. The line graph below shows the amount of rainfall recorded in Singapore from June to December in a certain year.



- What was the difference in the amount of rainfall recorded between the driest and wettest months from June to December?
- Between which two months was the increase in the amount of rainfall the greatest?
- What was the total amount of rainfall recorded from Jun to Aug?

Ans : a) _____ [1]

b) _____ [1]

c) _____ [1]

9. Mrs Lee baked some chocolate and banana muffins. She gave away $\frac{3}{5}$ of the chocolate muffins and $\frac{3}{7}$ of the banana muffins. The number of chocolate muffins left was the same as the number of banana muffins left. Mrs Lee had 352 muffins left. How many banana muffins did she bake?

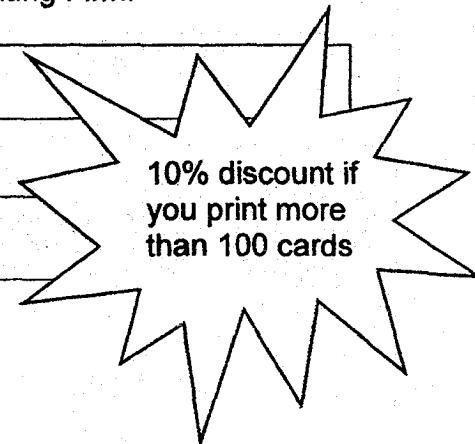
Ans: _____ [3]

10. Mrs Tan bought some goldfish and angelfish. She paid \$1134 for 60 fishes. Each goldfish cost \$28 and each angelfish cost \$7. How many goldfish did Mrs Tan buy?

Ans: _____ [3]

11. The table shows the cost of printing cards for AAA Printing Firm.

Number of cards	Cost
First 50 cards	\$1.15 per card
Subsequent cards	\$0.90 per card



10% discount if
you print more
than 100 cards

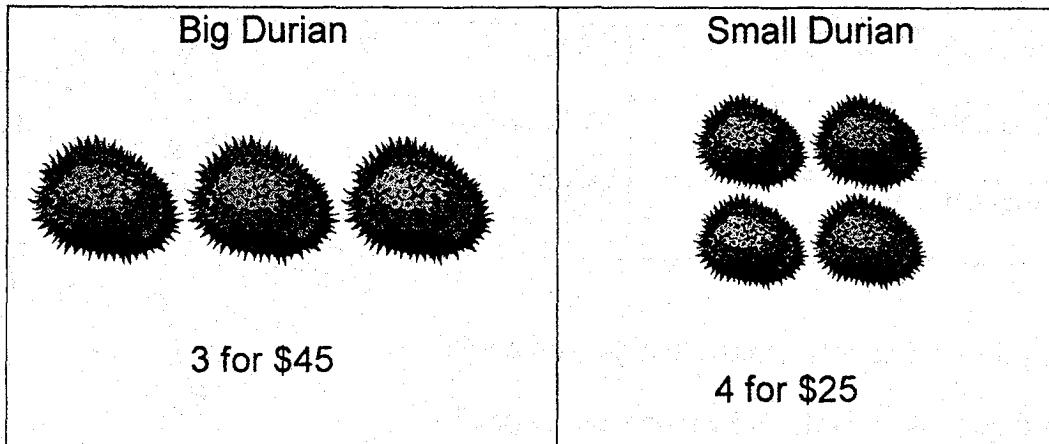
(a) Mary printed 50 cards. How much did she pay?

(b) John printed 300 cards. How much did he pay?

Ans: a) _____ [1]

b) _____ [3]

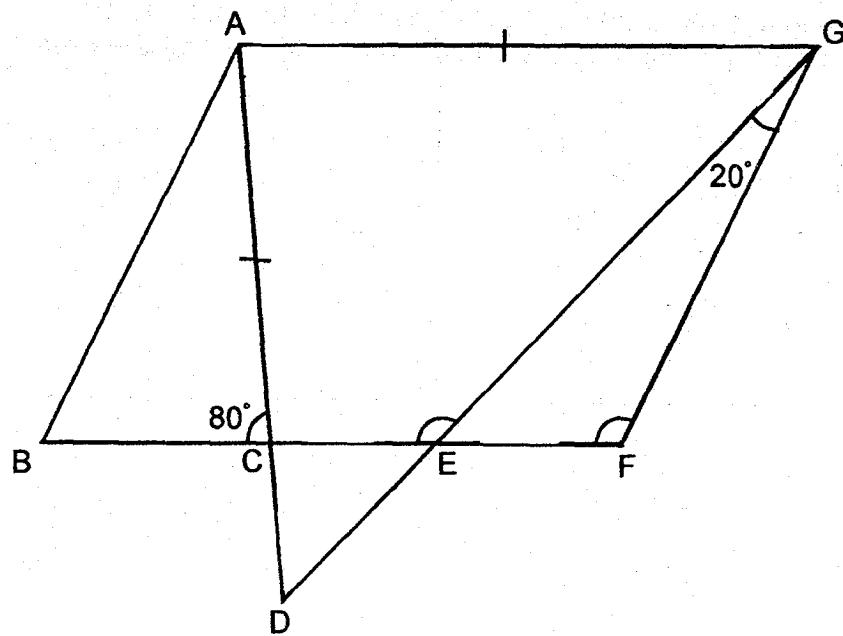
12.



Jane bought an equal number of big durians and small durians for a party. She spent \$315 more on big durians. How many durians did she buy altogether?

Ans : _____ [3]

13. In the figure below, ABFG is a parallelogram and ADG is an isosceles triangle. $\angle ACB = 80^\circ$ and $\angle DGF = 20^\circ$.



(a) Find $\angle EFG$.

(b) Find $\angle CEG$.

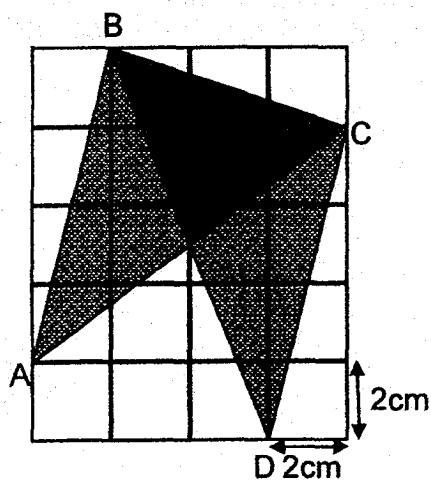
Ans: a) _____ [3]

b) _____ [1]

14. The average height of a group of girls was 155 cm.
When 15 boys joined the group, the average height became 158 cm.
Given that the average height of the 15 boys was 165 cm, find the number of girls in the group.

Ans: _____ [4]

15. ABC and BCD are identical triangles. The overlapping area is 19cm^2 . Find the area of the shaded figure.



Ans: _____ [4]

16. There were 50 more men than women at a concert on Day 1. On Day 2, the number of women decreased by 20% while the number of men remained the same. Each concert ticket cost \$108. There were 950 audience on Day 2. How much money was collected from the sales of the concert tickets on both days?

Ans : _____ [5]

17. Mrs Lim had some bags in her shop. $\frac{1}{4}$ of them were Brand A, $\frac{1}{2}$ of the remaining were Brand B and the rest were Brand C.

The table below shows the amount she earned per bag.

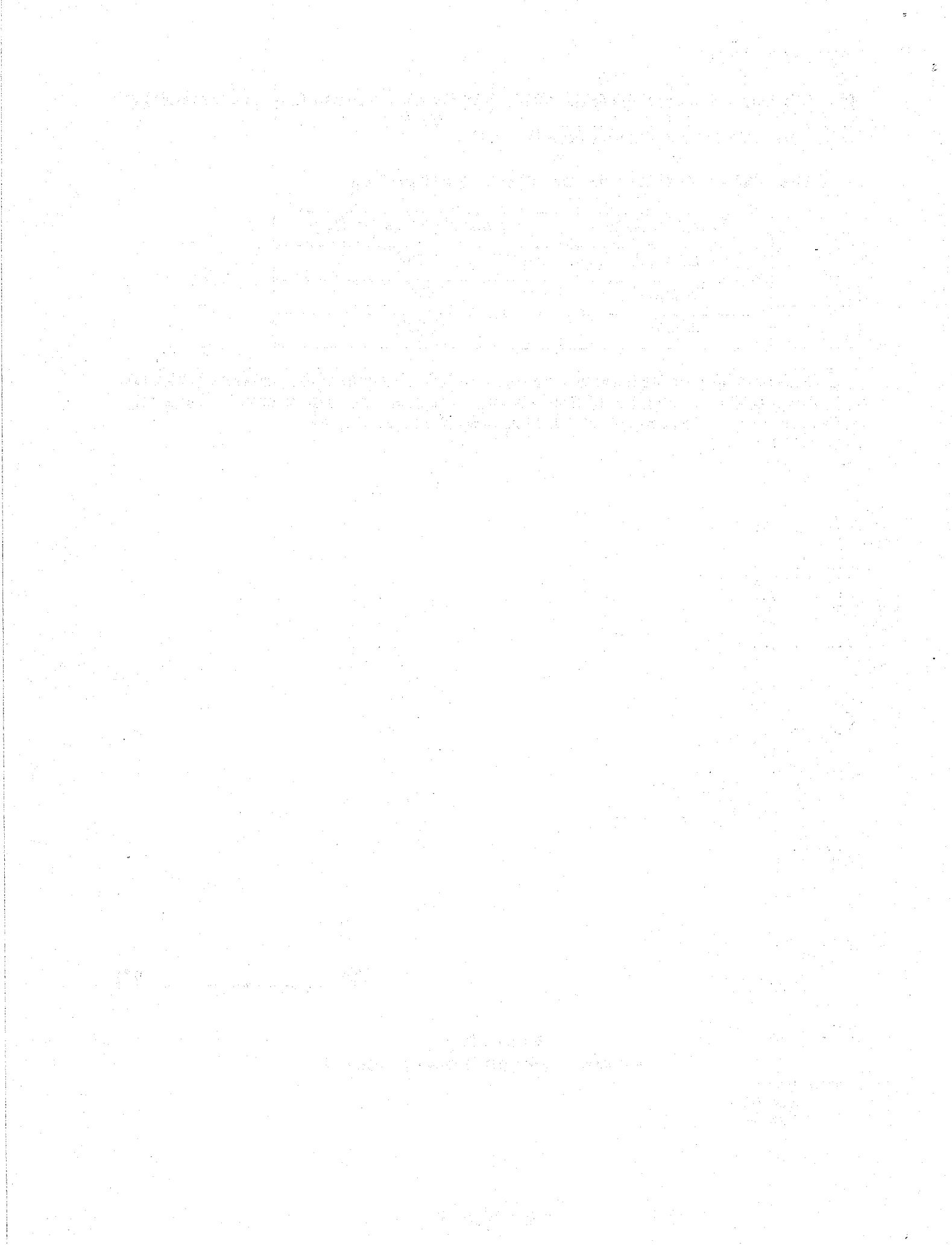
Types of bags	Amount earned per bag
Brand A	\$240
Brand B	\$180
Brand C	\$130

She sold 50% of the bags and earned \$14100. The ratio of the number of Brand A bags sold to the number of Brand B bags sold to the number of Brand C bags sold was 3 : 4 : 7. How many Brand B bags did she have at first?

Ans: _____ [5]

**End of Paper
Please check your work carefully ☺**

Setters: Ho KH
Lee SK
Yan YL



EXAM PAPER 2017 (P5)

SCHOOL : RAFFLES GIRLS'

SUBJECT : MATHEMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	4	2	3	3	3	4	1	1
Q11	Q12	Q13	Q14	Q15					
2	2	2	1	3					

16) 171 17) 10.307 km 18) $\frac{1}{4}$ of the pizza 19) $3\frac{3}{8}$ 20) R

21) 0.3 , 0.37 , $\frac{3}{8}$ 22) 1:2 23) 75 small packets 24) 210 g

25) 3.4L 26) 140cm² 27) 245° 28) 60 cards 29) 57.5%

30)a) True b) False

Paper 2

1) Total height = $1.69 + 1.77 + 1.83 = 5.28$

Average height = $5.28 \div 3 = 1.76$ m

2) $25 \times 2\frac{1}{4} = 56\frac{1}{4}$ kg

3) $\angle DFE = 180^\circ - 90^\circ - 35^\circ = 55^\circ$

$\angle AFE = 180^\circ - 55^\circ = 125^\circ$

$$4) \$50550 - \$50000 = \$550$$

$$\$550/\$50000 \times 100\% = 1.1\%$$

$$5) \text{First } 8h = 8 \times \$9 = \$72$$

$$\text{Remaining } 2h = 2 \times \$12.50 = \$25$$

$$\text{Paid} = \$25 + \$72 = \$97$$

$$6) 6u + 4u = 17.50$$

$$\text{Cost of 1 pen} - 1u = 17.50 \div 10 = 1.75$$

$$\text{Cost of 10 pens, } 10u = 10 \times 1.75 = 17.50$$

$$\text{Cost of 1 file, } 2u = 2 \times 1.75 = 3.50$$

$$\text{Cost of 6 files} = 6 \times 3.50 = 21$$

$$\text{Total Siti paid} = 21 + 17.50 = \$38.50$$

$$7)a) \frac{1}{4} = 3/12$$

$$7/12 - 3/12 = 4/12$$

$$4/12 \rightarrow 36000$$

$$12/12 \rightarrow 36000 \times 3 = 108000$$

$$108000 \text{ cm}^3 = 108 \text{ L}$$

$$b) \text{Vol. of container A in the end} = 36000 \div 4 \times 7 = 63000$$

$$63000 \text{ ml} = 63 \text{ ml}$$

$$8)a) \text{Difference} = 180 - 120 = 60 \text{ mm}$$

$$b) \text{October to November}$$

$$c) \text{total rainfall from Jun to Aug} = 140 + 120 + 130 = 390 \text{ mm}$$

$$9) \frac{2}{5} C = \frac{4}{7} B$$

$$\frac{4}{10} C = \frac{4}{7} B$$

$$4u + 4u = 352$$

$$1u = 352 \div 8 = 44$$

Banana muffins baked, $7u = 7 \times 44 = 308$ banana muffins

$$10) T \rightarrow 60 \times 7 = 420$$

$$E \rightarrow 1134 - 420 = 714$$

$$D \rightarrow 28 - 7 = 21$$

$$O \rightarrow 714 \div 21 = 34 \text{ gold fish}$$

$$11)a) \text{First 50 cards} = 50 \times \$1.15 = \$57.50$$

$$b) \text{First 50} = \$57.50$$

$$\text{Remaining 250 cards} = 250 \times \$0.90 = \$225$$

$$\text{Total paid} = \$225 + \$57.50 = \$282.50$$

$$90/100 \times 282.50 = \$254.25$$

$$12) 3B \rightarrow \$4$$

$$12B \rightarrow \$45 \times 4 = \$180$$

$$4s \rightarrow \$25$$

$$12s \rightarrow \$25 \times 3 = \$75$$

$$\$180 - \$75 = \$105$$

$$\$315 \div \$105 = 3$$

$$12B \times 3 = 36 B$$

$$12S \times 3 = 36 S$$

$$\$105 \times 3 = \$315$$

$$\text{Total durian} = 36 + 36 = 72 \text{ durian}$$

$$13)a) \angle ADG / \angle AGD = (180^\circ - 80^\circ) \div 2 = 50^\circ$$

$$\angle EFG = 180^\circ - 50^\circ - 70^\circ = 110^\circ$$

$$b) \angle CEG = 180^\circ - 50^\circ = 130^\circ$$

$$14) \text{Decrease} = 165 - 158 = 7$$

$$\text{Total decrease} = 15 \times 7 = 105$$

$$\text{Increase} = 158 - 155 = 3$$

$$\text{Girls} = 105 \div 3 = 35 \text{ girls}$$

$$15) \frac{1}{2} \times 6 \times 2 = 6$$

$$\frac{1}{2} \times 8 \times 2 = 8$$

$$\frac{1}{2} \times 8 \times 6 = 24$$

$$8 \times 8 = 64$$

$$64 - 6 - 8 - 24 = 26$$

$$26 \times 2 = 52$$

$$52 - 19 = 33 \text{ cm}^2$$

$$16) 180\% \rightarrow 950 - 50 = 900$$

$$2\% \rightarrow 900 \div 90 = 10$$

$$\begin{aligned} \text{Total audience for both days} & [(50 \times 10) + 50] + [(50 \times 10) + [(50 \times 10) + 50]] + (40 \times 10) \\ & = 2000 \end{aligned}$$

$$\text{Collect} = 2000 \times \$108 = \$216000$$

$$17) 3 \times 240 + 4 \times 180 + 7 \times 130 = 2350$$

$$14100 \div 2350 = 6$$

$$\frac{1}{2} \rightarrow 6 \times 14 = 84$$

$$84 \times 2 = 168$$

$$\frac{3}{8} \times 168 = 63$$

**SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 1)
PRIMARY 5**

Date: 9 May 2016

Duration: 50 min

NO calculator is allowed for this paper.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

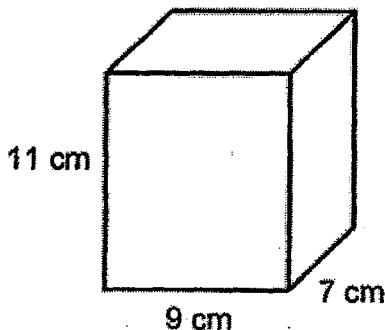
1. In 3 694 078, the digit 6 is in the _____ place.

- (1) hundreds
- (2) thousands
- (3) ten thousands
- (4) hundred thousands

2. $135 \times 2400 = 135 \times \underline{\quad} \times 60$

- (1) 4
- (2) 40
- (3) 400
- (4) 4000

3. Find the volume of the cuboid shown below.



- (1) 63 cm^3
- (2) 99 cm^3
- (3) 478 cm^3
- (4) 693 cm^3

4. What is the missing number in the box below?

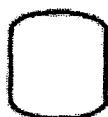
$$\frac{\square}{15} = \frac{12}{18}$$

- (1) 5
- (2) 9
- (3) 10
- (4) 14

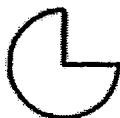
5. Express $\frac{61}{7}$ as a mixed number.

- (1) $5\frac{6}{7}$
- (2) $6\frac{1}{7}$
- (3) $8\frac{5}{7}$
- (4) $9\frac{2}{7}$

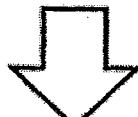
6. Which of the following figures can be tessellated?



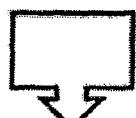
A



B



C



D

- (1) A
- (2) B
- (3) C
- (4) D

7. Look at the number below.

504.079

Which digit is in the hundredths place?

- (1) 1
- (2) 5
- (3) 7
- (4) 9

8. Express 8.16 as a mixed number in its simplest form.

- (1) $8\frac{16}{100}$
- (2) $8\frac{8}{50}$
- (3) $8\frac{4}{25}$
- (4) $8\frac{1}{16}$

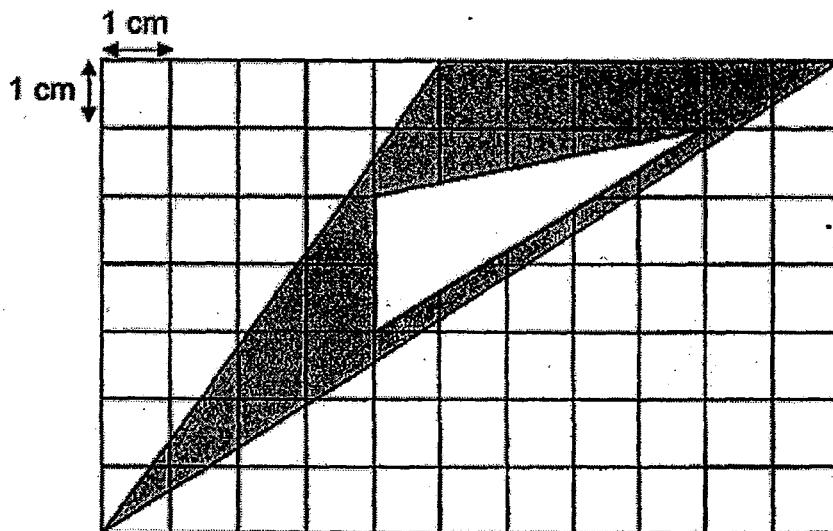
9. In a class of 30 pupils, there are 12 girls. What is the ratio of the number of girls to the number of boys?

- (1) 2 : 3
- (2) 2 : 5
- (3) 3 : 2
- (4) 5 : 2

10. Write 9 hundreds, 4 ones and 6 thousandths in decimal.

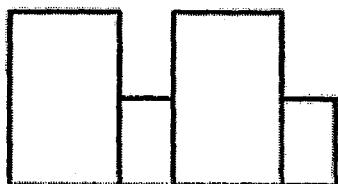
- (1) 904.06
- (2) 904.006
- (3) 940.06
- (4) 940.006

11. Find the total shaded area in the figure below.

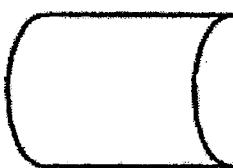


- (1) 16 cm^2
- (2) 21 cm^2
- (3) 26 cm^2
- (4) 32 cm^2

12. Which of the following figures have a line of symmetry?



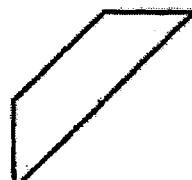
A



B



C



D

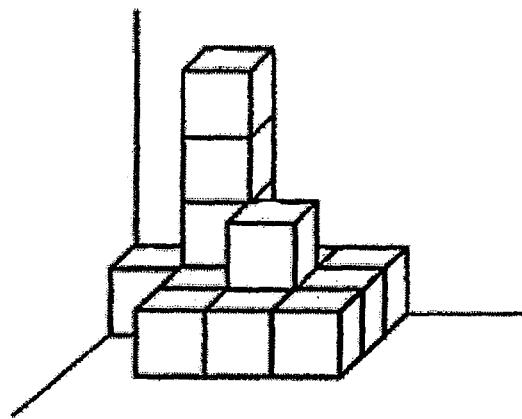
- (1) A and B
- (2) A and C
- (3) B and D
- (4) C and D

13. Hannah went to the gym once every 4 days while Vishnu went to the same gym once every 6 days. They became friends after meeting each other at the gym on a Saturday. Which would be the next earliest day that they would meet each other again at the gym?

- (1) Tuesday
- (2) Wednesday
- (3) Thursday
- (4) Friday

14. The solid below is made up of some identical 1-cm cubes.

What is the volume of the solid?



- (1) 12 cm^3
- (2) 13 cm^3
- (3) 14 cm^3
- (4) 15 cm^3

15. $\frac{4}{9}$ of $\boxed{\quad}$ is 324. What is the value of the missing number in the box?

- (1) 36
- (2) 144
- (3) 678
- (4) 729

Questions 16 to 25 carry 1 mark each.

Write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form.

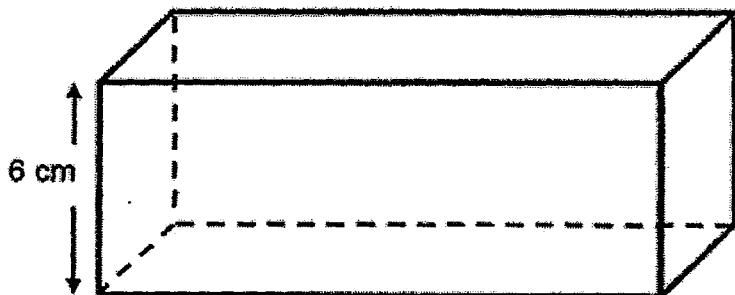
16. Find the value of 564×78 .

Ans: _____

17. The number of pupils in a school when rounded off to the nearest hundred was 1 900 people. What was the smallest possible number of pupils in the school?

Ans: _____

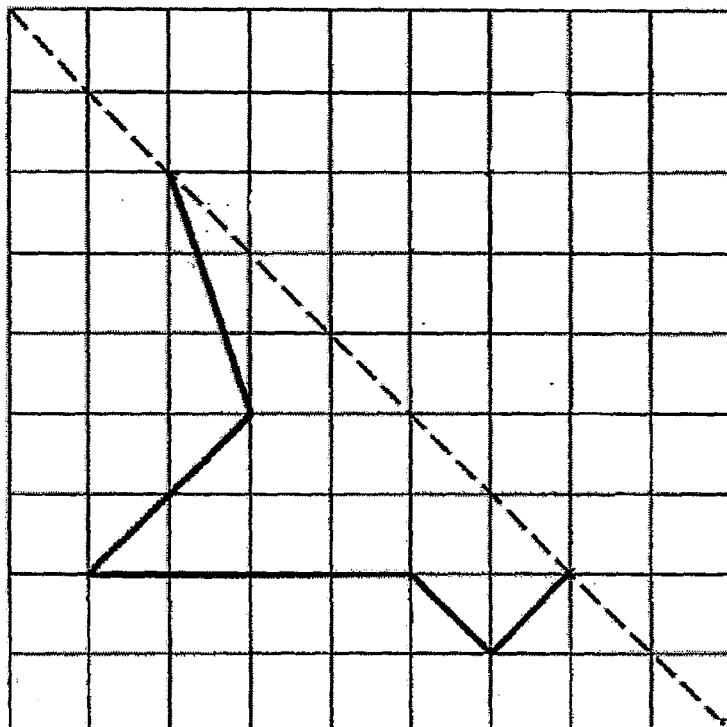
18. The cuboid below has a volume of 510 cm^3 . Find the area of the base of the cuboid, given that its height is 6 cm.



Ans: _____ cm^2

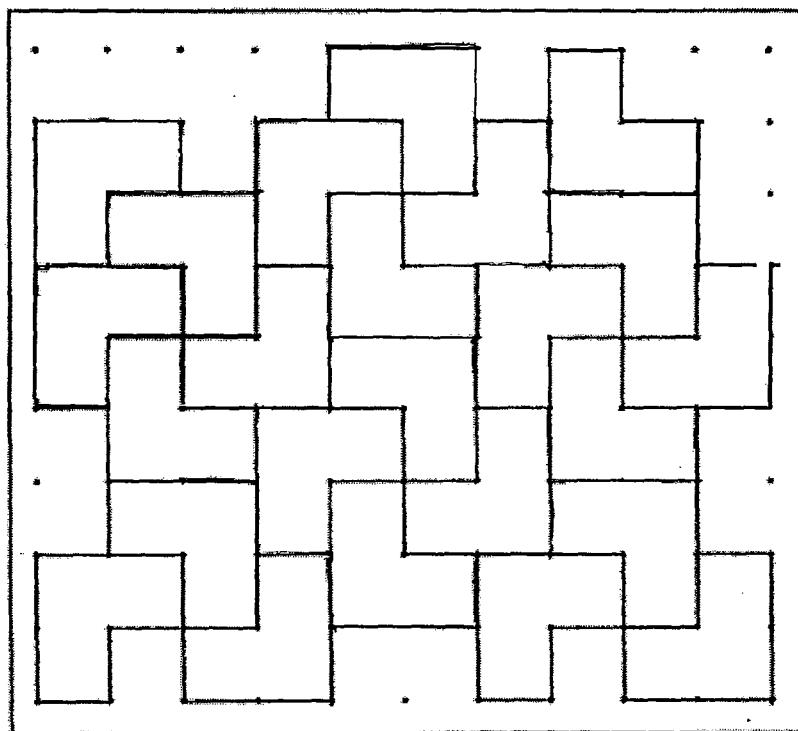
19. Given that AB is a line of symmetry, complete the figure below.

A



B

20. Shade the unit shape that is incorrectly tessellated in the figure below.



21. Miko had $\frac{2}{9}$ kg of rice. She used $\frac{1}{6}$ kg of her rice to make some sushi.
How much rice did she have left?

Ans: _____ kg

22. Express $\frac{5}{8}$ as a decimal.

Ans: _____

23. Find the value of $36.701 \div 7$.

Ans: _____

24. Find the value of $5\frac{7}{10} - 1.44 + 60$.

Ans: _____

25. Mrs Wong bought 30 banana cupcakes, 36 raisin cupcakes and 54 walnut cupcakes. Find the ratio of the number of raisin cupcakes to the total number of banana and walnut cupcakes.

Leave your answer in the simplest form.

Ans: _____

Questions 26 to 30 carry 2 marks each.

Show your working clearly in the space provided for each question and write your answers in the space provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form.

26. A car can travel 207 km on 9 litres of fuel.

How far can the car travel with 30 litres of fuel?

Ans: _____ km

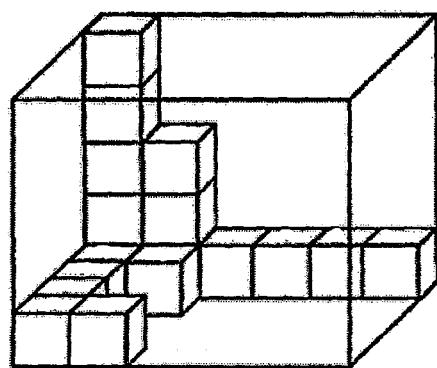
27. $28 + 240 \div (3 \times 4) - (15 - 5) =$ _____

Ans: _____

28. The base of a cubical tank has an area of 144 cm^2 . The tank is $\frac{1}{3}$ filled with water. Find the volume of water in the tank.

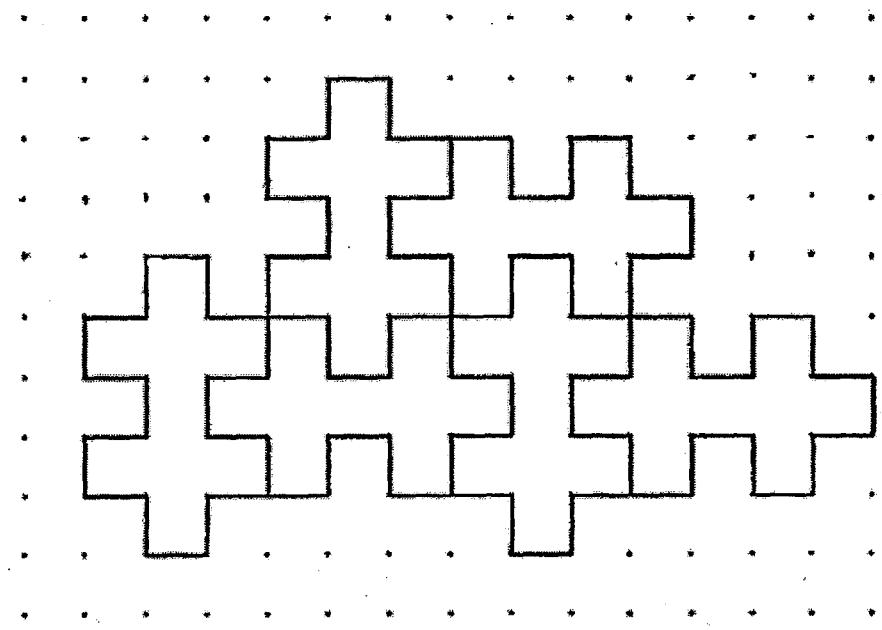
Ans: _____ cm^3

29. The figure below shows a rectangular glass box partly filled with unit cubes. How many more unit cubes must be added to the glass box for it to be completely filled with unit cubes?



Ans: _____

30. Extend the tessellation by drawing 2 more unit shapes.



End of Paper
© Please check your work carefully ©

Setters: Ms Tan Y. T.
Ms Teo S. H.
Mrs J. Seto

**SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 5**

Date: 9 May 2016

Duration: 1 h 40 min

The use of calculator is allowed for this paper.

**Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.
Figures are not drawn to scale.**

For questions which require units, give your answers in the units stated. (10 marks)

1. 48 pupils participated in a run. $\frac{3}{8}$ of the pupils were girls.
How many boys participated in the run?

Ans: _____ [2]

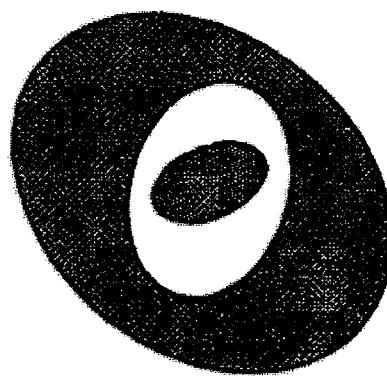
2. I am a common factor of 24 and 36.
I am a multiple of 4 and 6.
I am greater than 10
What number am I?

Ans: _____ [2]

3. Aisha had 1272 marbles. She gave $\frac{1}{3}$ of her marbles to Bala and $\frac{1}{4}$ of her marbles to Catherine. How many marbles did she give away?

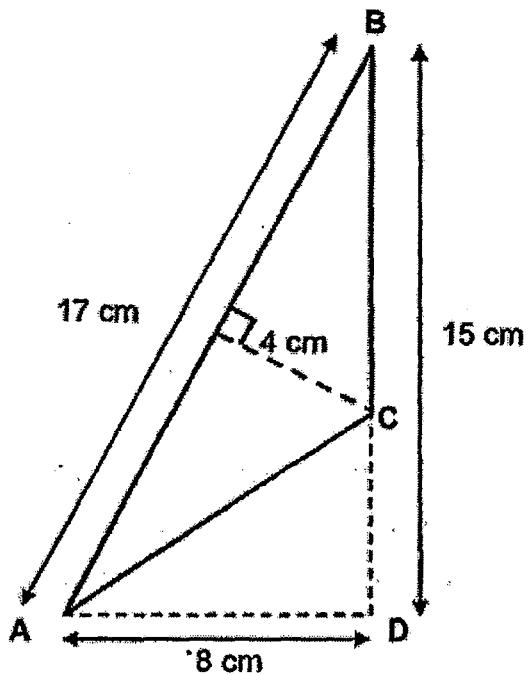
Ans: _____ [2]

4. Mathew designed a logo using three ovals. The areas of the ovals were in the ratio of 1 : 4 : 13. He then shaded some parts of the logo as shown.
What was the ratio of the shaded area to the unshaded area of the logo?



Ans: _____ [2]

5. What is the area of triangle ABC as shown in the figure below?



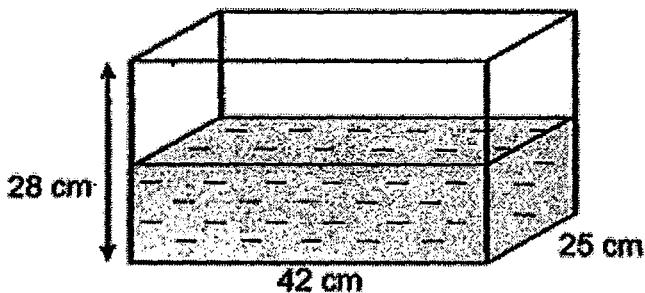
Ans: _____ cm^2 [2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

Figures are not drawn to scale.

The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. In the figure below, a fish tank measuring 42 cm by 25 cm by 28 cm was filled with water to its brim. Then, 10.08 ℥ of water was removed from the fish tank. Find the volume of water left in the tank.



Ans : _____ [3]

7. Katrina had some red, blue and green beads in the ratio of 5 : 4 : 6. She had a total of 385 red and green beads. How many blue beads did she have?

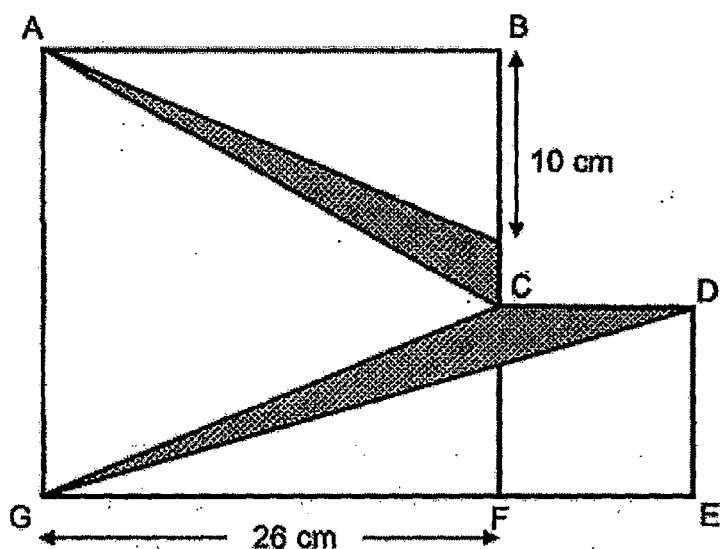
Ans: _____ [3]

8. Manesh had \$124 more than Putri. Putri spent \$29 on a book and gave \$42 to Manesh. In the end, Manesh had 4 times as much money as Putri. How much money did Putri have at first?

Ans: _____ [3]

9. ABFG and CDEF are squares. The area of CDEF is 121 cm^2 .

Find the total shaded area in the figure.

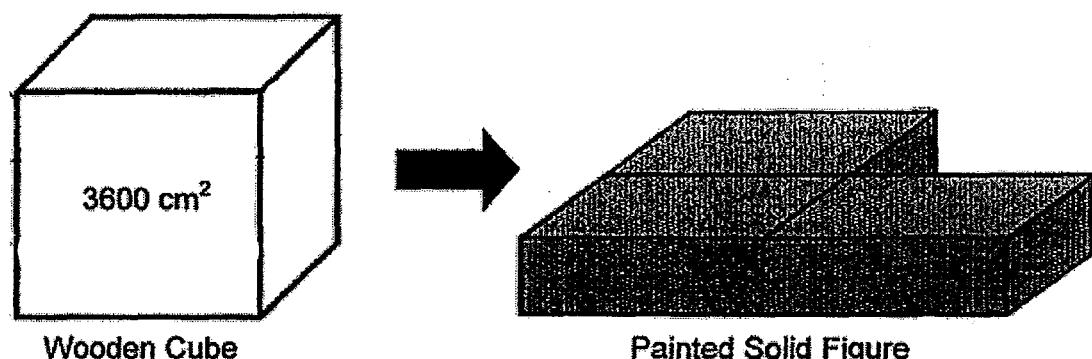


Ans: _____ [4]

10. Xiao Hui had some 20¢ and 50¢ coins which added up to \$20.30.
She had 14 more 20¢ coins than 50¢ coins. How many 20¢ coins did she have?

Ans: _____ [4]

11. The area of one face of the wooden cube below is 3600 cm^2 . A carpenter cut the wooden cube into three cuboids of identical size. After gluing the cuboids together to make a solid figure as shown below, he painted all the surfaces of the solid figure red. What was the total surface area of the solid figure that had been painted red?



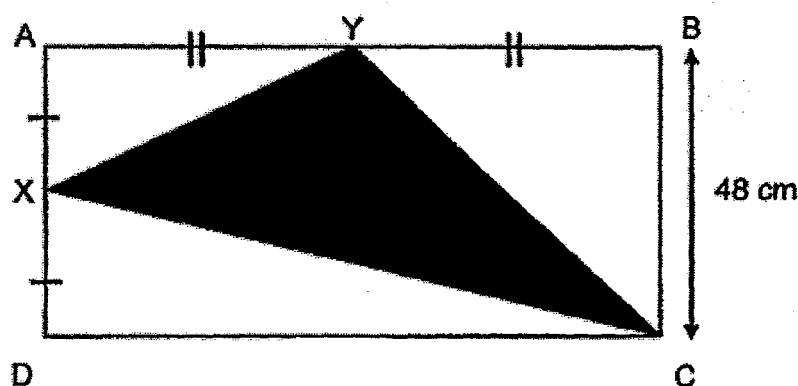
Painted Solid Figure

Ans: _____ [3]

12. Tony had \$522 more than Robert. After Tony spent $\frac{5}{7}$ of his money and Robert spent $\frac{1}{5}$ of his money, they had the same amount of money left.
How much did Tony have at first?

Ans: _____ [3]

13. ABCD is a rectangle. BC is 48 cm and AB is twice of BC.
Find the area of triangle CXY.



Ans: _____ [4]

14. Study the table below and answer the questions that follow.

Row	Numbers							Sum of each row
1	1							1
2	1 1							2
3	1 2 1							4
4	1 3 3 1							8
5	1 4 6 4 1							16
6	1 5 10 10 5 1							32
7	1	(i)	(ii)	20	15	6	1	64

a) What are the numbers represented by (i) and (ii)?

b) Which row will have a sum of 1 024?

Ans: (a) (i) _____ [1]

(ii) _____ [1]

(b) _____ [2]

15. Amy and Brian decided to buy a bag which cost \$945 for their mother. They shared the cost of the bag in the ratio of 1 : 4.
- (a) How much did Brian pay for the bag?
- (b) Cathy wanted to share the cost of the bag too. The three of them decided to share the cost of the bag equally. How much should Cathy pay Brian?

Ans : (a) _____ [2]
(b) _____ [3]

16. Tammy wanted to buy some cookies and brownies. The cost of a cookie was $\frac{3}{4}$ the cost of a brownie. A set of 3 cookies and 2 brownies cost \$5.10.

What was the total amount Tammy had to pay for 17 cookies and 10 brownies?

Ans: _____ [4]

17. The ticket price for 4 adults and 3 children for a concert is \$136. The ticket price for 6 adults and 6 children is \$222.

- a) Find the cost of an adult ticket.
- b) Miss Tan wants to bring her class of 40 Primary 3 pupils to the concert.

For every 15 pupils, there must be 1 accompanying teacher. What is the minimum cost she needs to pay altogether?

Ans : (a) _____ [2]

(b) _____ [3]

18. Mike, Nathan and Owen each had some marbles and decided to play a game with their marbles.

In round 1, Mike lost $\frac{1}{2}$ of his marbles to Nathan.

In round 2, Nathan lost $\frac{1}{2}$ of his total number of marbles to Owen.

In round 3, Owen lost $\frac{1}{2}$ of his total number of marbles to Mike.

In the end, Mike, Nathan and Owen had 124, 88 and 68 marbles respectively.

How many marbles did Nathan have at first?

Ans : _____ [5]

End of Paper
Please check your work carefully ☺

Setters: Ms Tan Y. T.
Ms Teo S. H.
Mrs J. Seto

ANSWER SHEET

EXAM PAPER 2016 (P5)

SCHOOL : RAFFLES GIRLS'

SUBJECT : MATHEMATICS

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	4	3	3	3	3	3	1	2
Q11	Q12	Q13	Q14	Q15					
1	3	3	3	4					

16) 43992

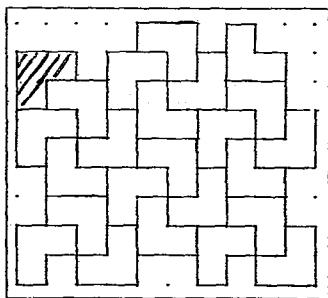
17) 1850

18) 85cm²

19)

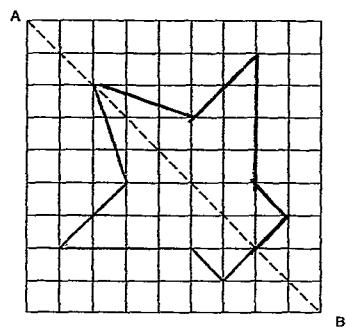
20)

20. Shade the unit shape that is incorrectly tessellated in the figure below.



Page 9 of 14

19. Given that AB is a line of symmetry, complete the figure below.



21) 1/18kg

22) 0.625

23) 243

24) 64.26

25) 3:7

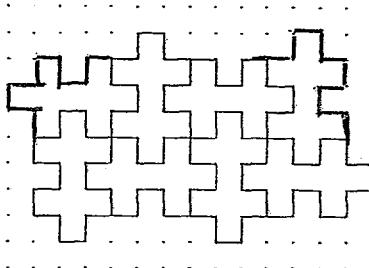
26) 690km

27) 38

28) 576cm³

29) 132

30. Extend the tessellation by drawing 2 more unit shapes.



Paper 2

$$1) \frac{5}{8} \times 48 / 1 = 30 \text{ boys}$$

$$2) 12 \div 4 = 3$$

$$12 \div 6 = 2$$

Ans: 12

$$3) \frac{1}{3} \times 1272 / 1 = 424 \text{ (Bala)}$$

$$\frac{1}{4} \times 1272 / 1 = 318 \text{ (Catherine)}$$

$$424 + 318 = 742$$

$$4) \text{shaded area} \rightarrow 13 + 1 = 14$$

$$14 - 4 = 10$$

$$\text{Unshaded area} \rightarrow 4 - 1 = 3$$

S : U

10: 3

$$5) \frac{1}{2} \times 17 \times 4 = 34 \text{ cm}^2$$

$$6) 42 \times 25 \times 28 = 29400$$

$$29400 - 10080 = 19320 \text{ ml}$$

$$7) 5u + 6u = 11u$$

$$11u \rightarrow 385$$

$$1u \rightarrow 385 \div 11 = 35$$

$$4u \rightarrow 35 \times 4 = 140 \text{ blue beads}$$

$$8) 29 + 42 + 124 + 42 = 237$$

$$3u \rightarrow 237$$

$$1u \rightarrow 237 \div 3 = 79$$

$$79 + 29 + 42 = \$150$$

$$9) 121 = 11 \times 11$$

$$10 + 11 = 21$$

$$26 - 21 = 5$$

$$\frac{1}{2} \times 11 \times 11 = 60.5$$

$$\frac{1}{2} \times 26 \times 5 = 65$$

$$65 + 60.5 = 125.5 \text{ cm}^2$$

$$10) 14 \times 0.20 = 2.80$$

$$20.30 - 2.80 = 17.5$$

$$0.20 + 0.50 = 0.70$$

$$17.5 \div 0.70 = 25$$

$$25 + 14 = 39$$

$$11) 1r \rightarrow 60 \times 20 = 1200$$

$$8r \rightarrow 1200 \times 8 = 9600 \text{ (painted red)}$$

$$1s \rightarrow 3600$$

$$6s \rightarrow 3600 \times 6 = 21600 \text{ (painted red)}$$

$$9600 + 21600 = 31200 \text{ cm}^2$$

$$12) 14 - 5 = 9$$

$$9u \rightarrow 522$$

$$1u \rightarrow 522 \div 9 = 58$$

$$14u \rightarrow 58 \times 14 = \$812$$

$$13) \frac{1}{2} \times 48 \times 24 = 576$$

$$\frac{1}{2} \times 48 \times 48 = 1152$$

$$\frac{1}{2} \times 96 \times 24 = 1152$$

$$\text{Total area of rectangle} \rightarrow 48 \times 96 = 4608$$

$$\text{Total area of unshaded parts} \rightarrow 576 + 1152 + 1152 = 2880$$

$$\text{Triangle CXY} \rightarrow 4608 - 2880 = 1728 \text{cm}^2$$

$$14)\text{a)} 1 + 20 + 15 + 6 + 1 = 43$$

$$64 - 43 = 21$$

$$21 - 6 = 15$$

$$\text{b)} 1024 \div 2 = 512$$

$$512 \div 2 = 256$$

$$256 \div 2 = 128$$

$$128 \div 2 = 64$$

$$10 + 1 = 11$$

$$15)\text{a)} 1u + 4u = 5u$$

$$5u \rightarrow 945$$

$$1u \rightarrow 945 \div 5 = 189$$

$$4u \rightarrow 189 \times 4 = \$756$$

$$15)b) 3u \rightarrow 945$$

$$1u \rightarrow 94 \div 3 = 315$$

$$\text{Amy to Brian} \rightarrow 135 - 189 = 126$$

$$\text{Cathy to pay Brian} \rightarrow 756 - 315 - 126 = \$315$$

$$16) 4u \times 2 = 8u$$

$$3u \times 3 = 9u$$

$$8u + 9u = 17u$$

$$17u \rightarrow 5.10$$

$$1u \rightarrow 5.10 \div 17 = 0.3$$

$$4u \times 10 = 40u$$

$$3u \times 17 = 51u$$

$$40u + 51u = 91u$$

$$91u \rightarrow 0.3 \times 91 = \$27.3$$

$$17)a) 4A + 3C = 136 \rightarrow 28A + 6C = 272$$

$$6A + 6C = 222$$

$$2A = 50$$

$$1A = 50 \div 2 = 25$$

$$4A = 25 \times 4 = 100$$

$$3C = 136 - 100 = 36$$

$$1C = 36 \div 3 = 12$$

$$18) 120$$

$$17)b) 40 \div 15 = 2R10$$

$$40 \times 12 = 480 \text{ (child tickets price)}$$

$$2 + 1 = 3 \text{ (2 accompanying)}$$

teacher + Miss Tan)

$$3 \times 25 = 75 \text{ (adult tickets price)}$$

$$480 + 75 = \$555$$



RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1 2009 Paper 1

Name : _____ () Class: P5
Banded Class: P5

12 May 2009 MATHEMATICS Att: 50 min

You are not allowed to use a calculator for this paper.

Your Score Out of 40 marks		
	Banded Class	Level
Highest score		
Average score		
Parent's Signature		

SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

1. About 16 000 visitors went to an exhibition when rounded off to the nearest thousand. Which could be the possible number of visitors?

- (1) 15 099
(2) 15 533
(3) 16 505
(4) 16 909

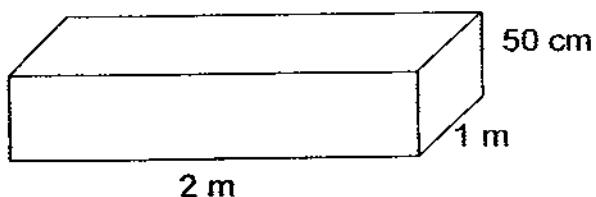
()

2. What is the best estimate for 3948×29 ?

- (1) 3000×20
(2) 3000×30
(3) 4000×20
(4) 4000×30

()

3. Find the volume of the cuboid shown below.



- (1) 0.1 m^3
(2) 1 m^3
(3) 10 m^3
(4) 100 m^3

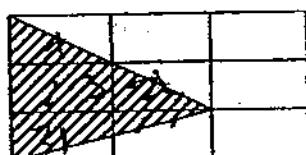
()

4. Express $\frac{28}{12}$ as a mixed number in its simplest form.

- (1) $2\frac{1}{3}$
(2) $2\frac{2}{3}$
(3) $2\frac{2}{6}$
(4) $2\frac{1}{4}$

()

5. What fraction of the figure below is shaded? Give your answer in its simplest form.

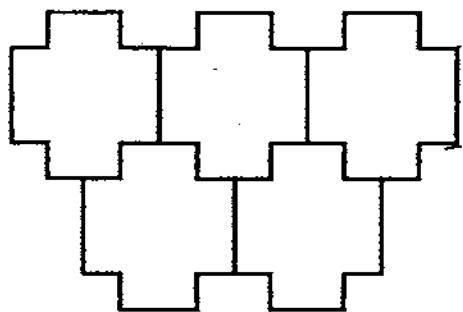


- (1) $\frac{1}{6}$
(2) $\frac{1}{3}$
(3) $\frac{4}{9}$
(4) $\frac{5}{9}$

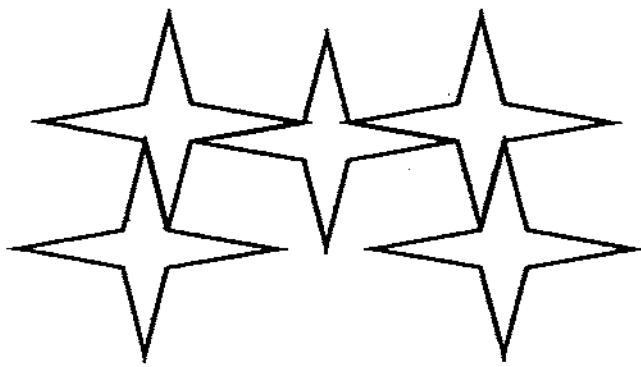
()

6. Which of the following is not a tessellation?

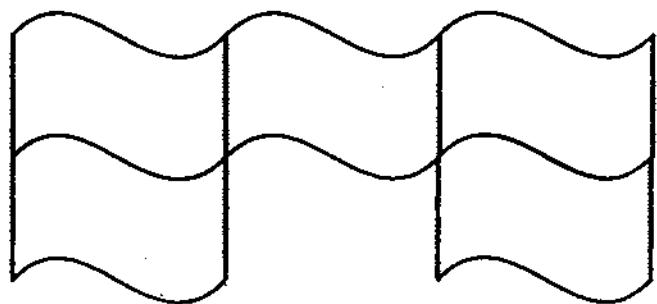
(1)



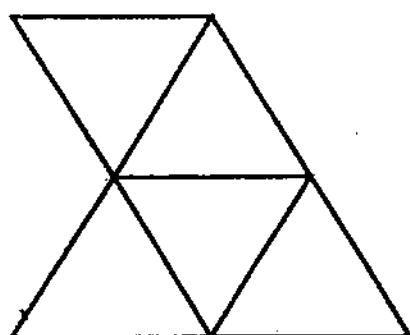
(2)



(3)



(4)



7. In 452.369, what is the place value of the digit 6?

- (1) Hundredths
- (2) Tenths
- (3) Tens
- (4) Hundreds

()

8. $4.25 + 42.5 =$ _____

- (1) 4.675
- (2) 8.50
- (3) 46.75
- (4) 85.0

()

9. Which of the following ratio is the same as $6 : 9$?

- (1) $3 : 2$
- (2) $8 : 11$
- (3) $10 : 15$
- (4) $12 : 27$

()

10. When the digit '7' in the number 472 589 is replaced by the digit '3', what is the difference between the two numbers?

- (1) 400
- (2) 4 000
- (3) 40 000
- (4) 400 000

()

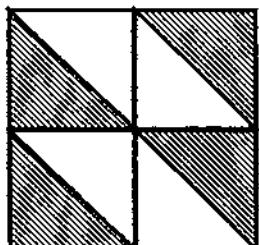
11. Multiply the sum of all the factors of 4 with the fourth multiple of 7.

- (1) 7
- (2) 11
- (3) 28
- (4) 196

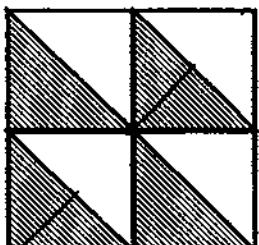
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12. Each of the squares below is made up of 8 triangles.
Which of the square has a line of symmetry?

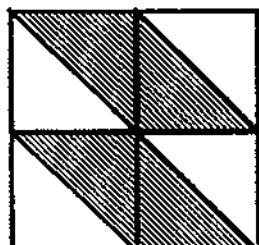
(1)



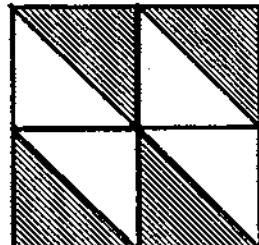
(2)



(3)



(4)



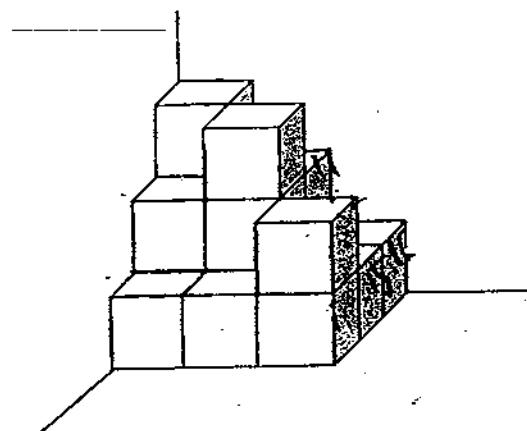
()

13. Karen had 128 beads. She gave $\frac{1}{4}$ of them to Liping and $\frac{3}{8}$ of the remainder to Siti. How many beads did Siti get?

- (1) 32
(2) 36
(3) 60
(4) 96

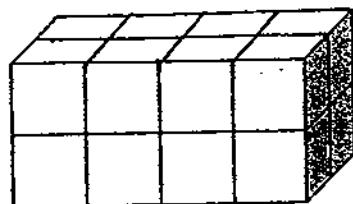
()

14. The solids shown below are made up of 1-cm cubes.



Which of the following solid has the same number of cubes as the above?

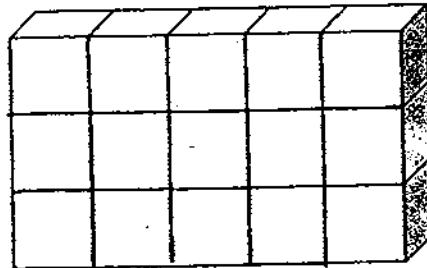
(1)



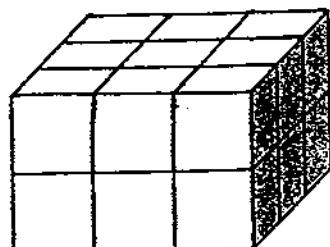
(2)



(3)



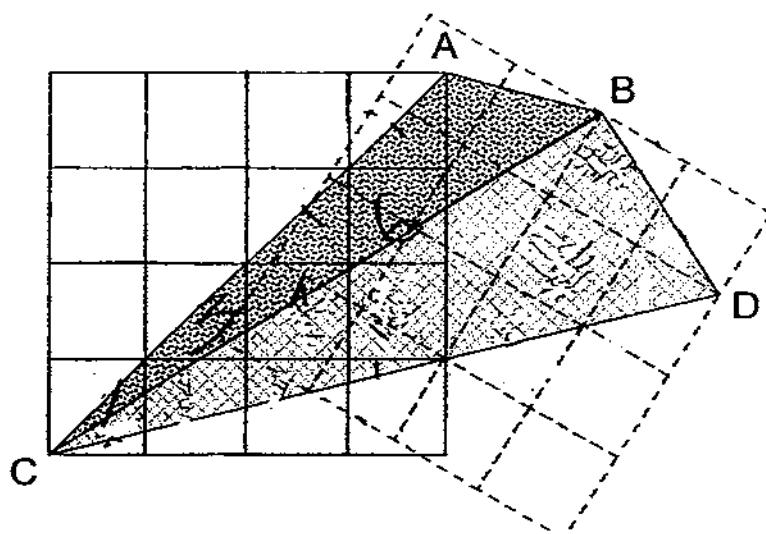
(4)



()

15. Triangle ABC and Triangle CBD are drawn on two different sets of 1-cm grids.

Which of the following is the **best** estimation of their total area?



- (1) 7 cm^2
- (2) 9 cm^2
- (3) 11 cm^2
- (4) 13 cm^2

()

SECTION B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. Write 2 012 548 in words.

17. Arrange the following in descending order:

$$0.245, \quad \frac{9}{20}, \quad 0.352, \quad \frac{1}{4}$$

Ans:

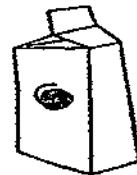
18. Lina mixed a bottle of guava juice, a can of apple soda and a packet of lime juice to create her favourite mocktail for her family.
What is the volume of the mocktail in litres?



Guava
Juice
2 l



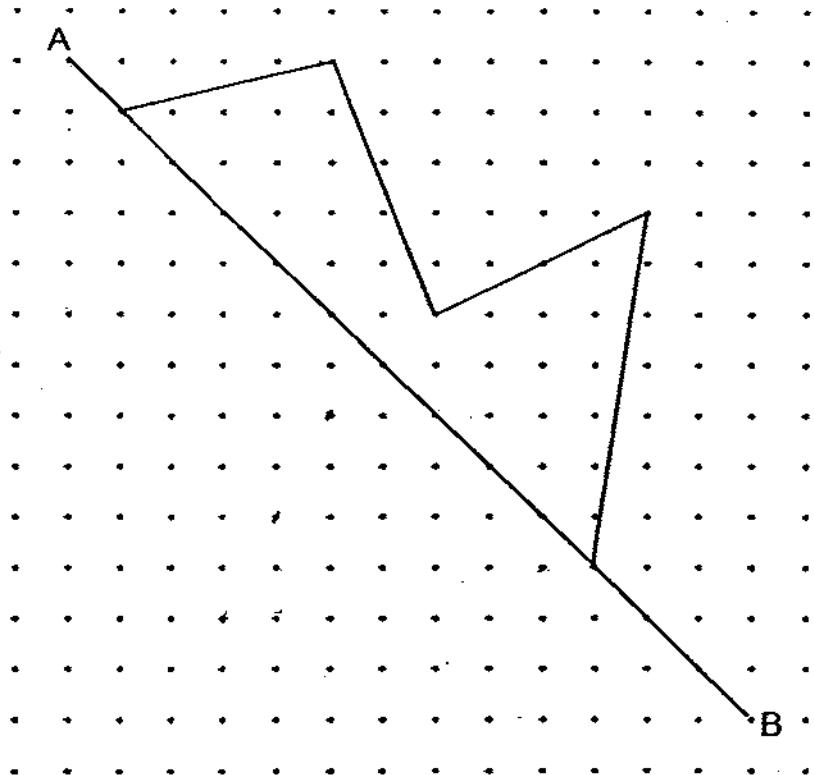
Apple
Soda
330 ml



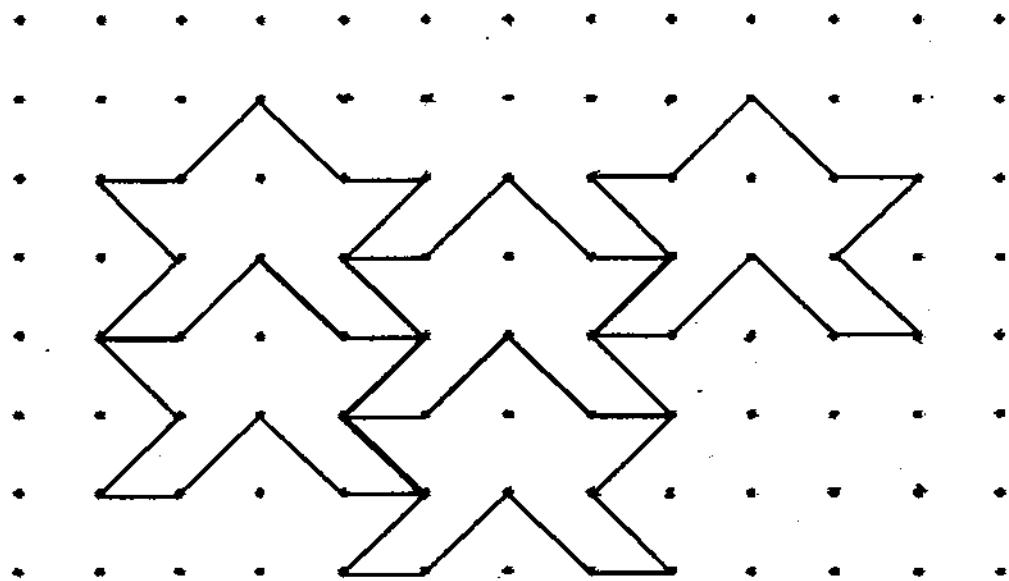
Lime
Juice
750 cm³

Ans: _____ l

19. Complete the figure below so that line AB is the line of symmetry.



20. The pattern in the box shows part of a tessellation.
Extend the tessellation by drawing two more unit shapes in the space provided
in the box.



21. In City A, every household has either one or two computers.
The ratio of the number of households to the number of computers is 3 : 5.
What fraction of the households has only one computer?

Ans: _____

22. Express 43.02 as a fraction in its simplest form.

Ans: _____

23. Find the value of 0.36×7 .

Ans: _____

24. Round off 76.959 to 1 decimal place.

Ans: _____

25. There are 12 tables, 11 chairs and 5 stools.
What is the ratio of the number of tables to the total number of chairs and stools?

Ans: _____

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

26. 55 lamp posts were placed equally along a street.
The distance between the first and the fourth lamp post was 36 m.
Find the total distance from the first lamp post to the 55th lamp post.

Ans: _____ m

27. Fill in the blank with the correct mathematical symbol (+, -, ×, or ÷) to make the statement below true.

$$25 \quad \square \quad 3 + 15 \div 5 + 7 = 85$$

Ans: _____

28. The length of Cube A is 3 times that of Cube B. Cube \Rightarrow Square.
What is the ratio of the volume of Cube A to the volume of Cube B?

Ans: _____

29. Kim packed $\frac{3}{5}$ kg of sugar into 6 similar bags.
How many kilograms of sugar was there in each bag?

Ans: _____ kg

30. Ali, Beng and Tom shared a sum of money.
Ali and Beng received the same amount of money.
The ratio of the total amount of money Ali and Beng had to the total amount of
money Beng and Tom had was 4 : 9.
What fraction of the sum of money had Tom?

Ans: _____

-End of Paper-
Please check your work carefully ☺



RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1

2009

Paper 2

Name: _____ () Class: P5 _____
Banded Class: P5 _____

12 May 2009 MATHEMATICS Att: 1 h 40 min

You are allowed to use a calculator for this paper.

Your Score Out of 60 marks		
	Banded Class	Leve
Highest score		
Average score		
Parent's Signature		

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1. $\frac{2}{5}$ of a piece of string is 40 cm long.

How long is $\frac{1}{4}$ of the string? (Give your answer in centimetres)

Ans: _____ cm [2]

2. A box can hold 64 tennis balls.

The same box can hold 58 more balls if it is filled with ping pong balls instead. How many ping pong balls can 26 such boxes hold?

Ans: _____ [2]

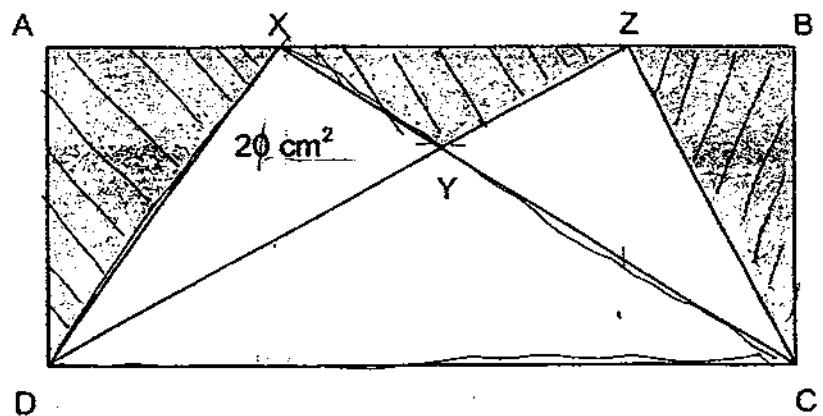
3. A rectangular fish tank measures 45 cm long, 10 cm wide and 25 cm high.
It is filled with water to the depth of 15 cm.
How much more water is needed to fill the fish tank completely?

Ans: _____ cm^3 [2]

4. Ahmad is $1\frac{1}{2}$ times as old as Ming. Owen's age is $\frac{1}{2}$ of Ming's age.
Express the ratio of Ahmad's age to Ming's age to Owen's age in the simplest form?

Ans: _____ [2]

5. The area of the rectangle ABCD below is 140 cm^2 .
Area of $\triangle XYD$ is 20 cm^2 .
Find the total shaded area of the rectangle.



Ans: _____ cm^2 [2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

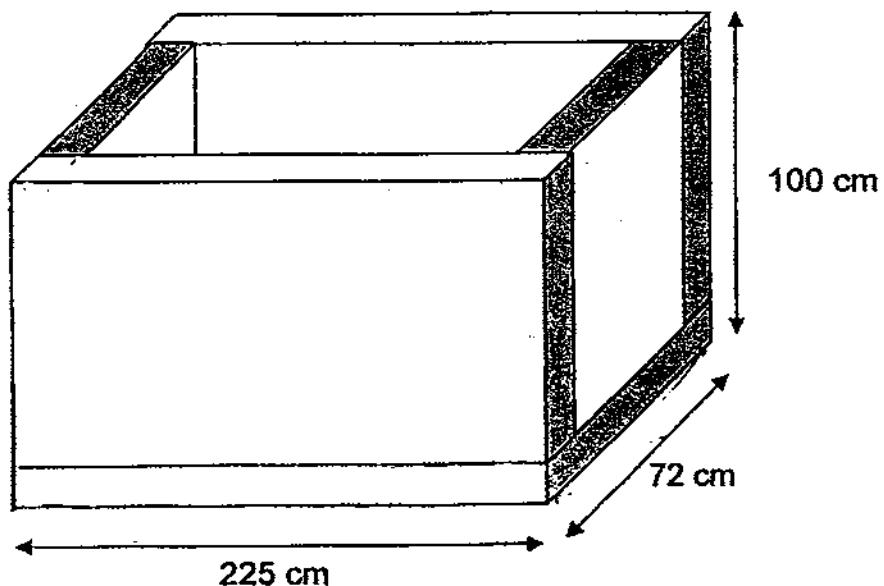
6. The ratio of John's pencil to Mary's pencil was 4 : 3.
After John transferred 80 pencils to Mary, the ratio was 4 : 7.
How many pencils did they have altogether?

Ans: _____ [3]

7. There were 280 people at a concert.
 $\frac{1}{4}$ of the males and $\frac{1}{5}$ of the females wore glasses.
Given that a total of 60 people wore glasses in the concert, how many females wore glasses?

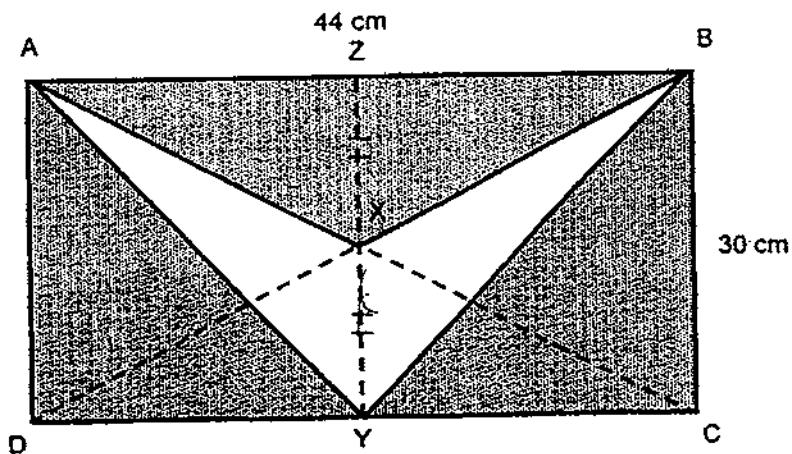
Ans: _____ [3]

8. Five pieces of wooden blocks, each 15 cm thick, were nailed together to form a rectangular container as shown below.
Find the capacity of the container. (Express your answer in litres)



Ans: _____ [3]

9. In the figure below, ABCD is a rectangle.
AB is 44 cm long and BC is 30 cm wide.
AXC and BXD are straight lines where AX=XC and BX = XD.
Express the total unshaded area as a fraction of the total shaded area.



Ans: _____ [3]

10. A rectangular water tank which was 80 cm long, 40 cm wide and 60 cm tall was $\frac{11}{12}$ filled with water.

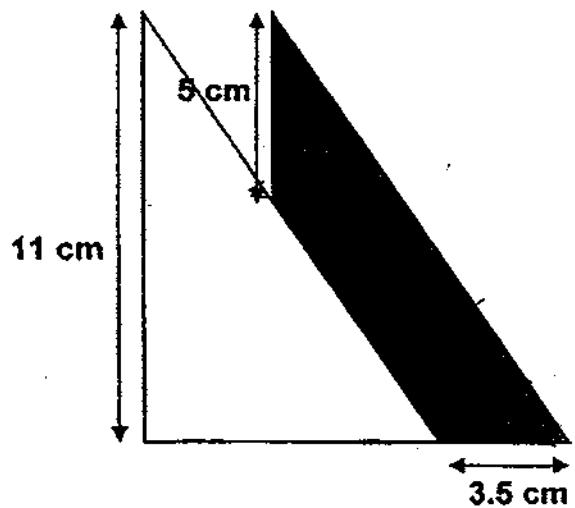
When a metal cube of sides 30 cm was completely submerged into the tank, the water level in the tank rose to the brim and some water was spilled over. Find the amount of water that was spilled over.

Ans: _____ [3]

11. Jack, Tim and Harry had a total of 5200 stamps.
Tim had thrice as many stamps as Harry.
Harry had 800 stamps fewer than Jack.
How many stamps had Tim?

Ans: _____ [4]

12. Two identical right-angled triangles overlapped each other as shown in the diagram below.
Find the area of the shaded part.



Ans: _____ [4]

13. Sami saves 40 pieces of \$2-note and \$10-note.
Her total savings is \$168.
How many pieces of \$2-note does Sami save?

Ans: _____ [3]

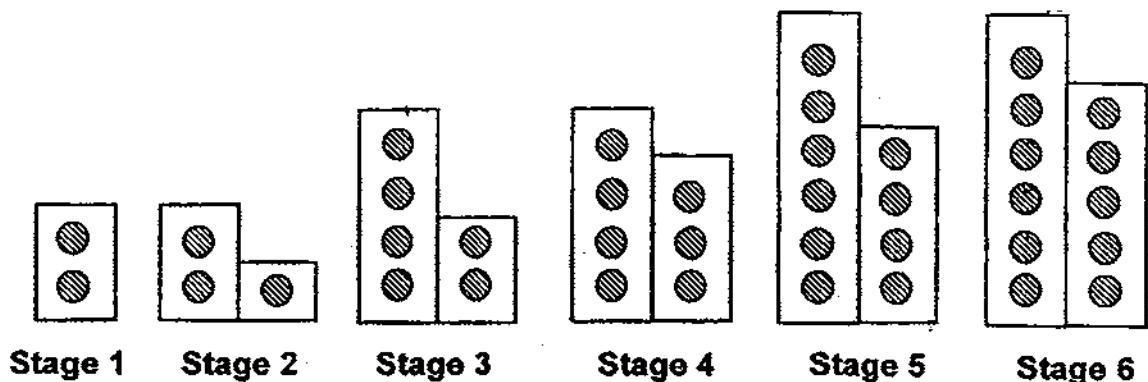
14. The table below shows the carpark charges in Wallerton Carpark.

Day and Time	Carpark Charges
Monday to Saturday Before 6 p.m.	\$1.20 for the first hour \$1.00 for every subsequent hour or part thereof
Monday to Saturday After 6 p.m.	\$1.50 for the first hour \$1.30 for every subsequent hour or part thereof
Sunday	\$2.00 per entry from 7 a.m. to 7 a.m. the following day

Mr Koo parked his car from Saturday afternoon 3.30 p.m. to Monday morning 8.30 a.m.
How much would be the carpark charges?

Ans: _____ [5]

15. Study the diagram and the table below.



Stage	1	2	3	4	5	6
Number of Dots	2	3	6	7	10	11

- a) Find the number of dots in stage 7.
- b) Find the number of dots in stage 24.
- c) At which stage will there be 99 dots?

Ans: a) _____ [1]

b) _____ [2]

c) _____ [2]

16. The entrance fees to the zoo is as follow:

Adult: \$18
Child: \$9

Group package tickets for 2 adults and 3 children are sold at a discounted amount of \$55 only.

On a given day, 1422 adults and 2598 children visited the zoo.

What is the minimum amount of entrance fees that the zoo can collect on that given day?

17. In 2008, there were 882 pupils in Greenwood Primary School and $\frac{1}{3}$ of them were girls.

After merging with Blackforest Girls' School in 2009, $\frac{3}{4}$ of the pupils in the merged school are now girls.

How many girls were from Blackforest Girls' School?

18. The number of marbles in Box A, Box B and Box C was 195.
John added 60 marbles to those in Box A, doubled the number of marbles in
Box B and halved the number of marbles in Box C.
The ratio of the number of marbles becomes 4 : 1 : 2.
What is the total number of marbles in the three boxes now?

Ans: _____ [4]

-End of Paper-
Please check your work carefully ☺



Setters: Mrs Tan Chwee Piow, Miss Lim Li Shan, Mr Teo Wee Toon



ANSWER SHEET

EXAM PAPER 2009

**SCHOOL : RAFFLES GIRLS' PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS**

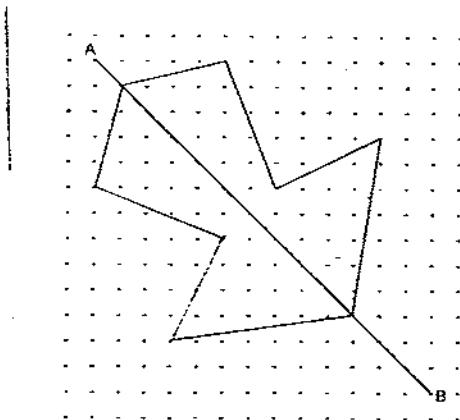
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	4	2	1	2	2	1	3	3	3	4	2	2	1	3

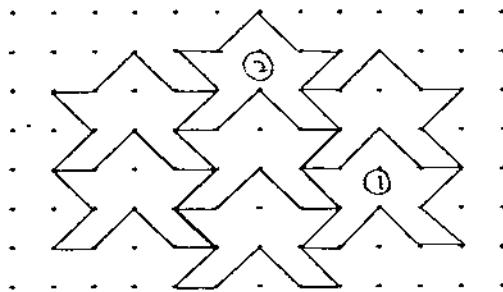
16) Two million, twelve thousand, five hundred and forty-eight

17) $9/20$, 0.35 , $\frac{1}{4}$, 0.245 18) 3.08

19)



20)



21) $1/3$ 22) $43\frac{1}{50}$ 23) 2.52 24) 77.0 25) $3:4$

26) 648m 27) X 28) $27:1$ 29) $1/10\text{kg}$ 30) $7/11$

page 2

1) $2/5 \rightarrow 40\text{cm}$

$2u \rightarrow 40\text{cm}$

$1u \rightarrow 40\text{cm} \div 2 = 20\text{cm}$

Total $\rightarrow 20\text{cm} \times 5 = 100\text{cm}$

$100\text{cm} \times \frac{1}{4} = 25\text{cm}$

$\frac{1}{4}$ of the string is 25cm.

2) $64+58=122$

1 box $\rightarrow 122$ ping pong

26 box $\rightarrow 122 \times 26 = 3172$

3172 ping pong balls can be hold in 26 boxes.

3) Total tank $\rightarrow 45\text{cm} \times 10\text{cm} \times 25\text{cm} = 1125\text{cm}^3$

Now tank $\rightarrow 45\text{cm} \times 10\text{cm} \times 15\text{cm} = 6750\text{cm}^3$

Different $\rightarrow 1125\text{cm}^3 - 6750\text{cm}^3 = 4500\text{cm}^3$

4500cm³ more of water is needed to fill the fish tank.

4) The ratio of Ahmad to Ming to Owen is 3:2:1

5) $140\text{cm}^2 \div 2 = 70\text{cm}^2$

$70\text{cm}^2 + 20\text{cm}^2 = 90\text{cm}^2$

$140\text{cm}^2 - 90\text{cm}^2 = 50\text{cm}^2$

The total shaded area is 50cm².

6) $44-28=16$

$16 \rightarrow 80$

$1 \rightarrow 80 \div 16 = 5$

$5 \times 77 = 385$

They have 385 pencils in all.

7) $60 \times 4 = 240$

$280 - 240 = 40$ females.

8) $195 \times 42 \times 85 = 69615$

$69615 \rightarrow 696.15\text{L}$

9) $30\text{cm} \div 2 = 15\text{cm}$

$44\text{cm} \times 15\text{cm} \times \frac{1}{2} = 330\text{cm}^2$

Unshaded $\rightarrow 330\text{cm}^2$

Total $\rightarrow 44\text{cm} \times 30\text{cm} = 1320\text{cm}^2$

$1320\text{cm}^2 - 330\text{cm}^2 = 990\text{cm}^2$

$330/990 = 33/99$

$= 1/3$

The fraction of the unshaded part to the total shaded area is 1/3

10) Total $\rightarrow 80\text{cm} \times 40\text{cm} \times 60\text{cm}$

$= 192000\text{cm}^3$

$192000\text{cm}^3 \times 11/12 = 176000$

Filled $\rightarrow 176000\text{cm}^3$

Metal $\rightarrow 30\text{cm} \times 30\text{cm} \times 30\text{cm}$

$= 27000\text{cm}^3$

$192000\text{cm}^3 - 176000\text{cm}^3 = 16000\text{cm}^3$

$- 27000\text{cm}^3 = 16000\text{cm}^3$

$- 16000\text{cm}^3 = 11000\text{cm}^3$

11000cm³ of water spilled.

$$11) 5200 - 800 = 4400$$

$$4400 \div 5 = 880$$

$$880 \times 3 = 2640$$

Tim has 2640 stamps.

$$12) 3.5\text{cm} \times 11\text{cm} - 5\text{cm} \times 6\text{cm} \times \frac{1}{2}$$

$$= 10.5\text{cm}^2$$

$$10.5\text{cm}^2 \times 2 = 21\text{cm}^2$$

$$\text{Small T} \rightarrow 3.5\text{cm} \times 5\text{cm} \times \frac{1}{2}$$

$$= 8.75\text{cm}^2$$

$$8.75\text{cm}^2 + 21\text{cm}^2 = 29.75\text{cm}^2$$

The area of the shaded part is
29.75cm²

13) Sami saved 29 pieces of two dollar notes.

$$14) \text{Before Sat} \rightarrow \$1.20 + \$1 + \$1 = \$3.20$$

$$\text{After Sat} \rightarrow \$1.50 + 12 \times \$1.30 = \$17.10$$

$$\text{Sunday} \rightarrow \$2$$

$$\text{Mon} \rightarrow \$1.20 + \$1 = \$2.20$$

$$\text{Total} \rightarrow \$3.20 + \$17.10 + \$2 + \$2.20 = \$24.50$$

$$15) \text{a)} 14$$

$$\text{b)} 47$$

$$\text{c)} 50$$

$$16) 1422 \div 2 = 711 \text{ (families)}$$

$$711 \times 3 = 2133 \text{ (children pt)}$$

$$2598 - 2133 = 465 \text{ (c/not part)}$$

$$711 \times \$55 = \$39105$$

$$465 \times \$9 = \$4185$$

$$\$39105 + \$4185 = \$43290$$

The minimum amount is \$43290

$$17) 882 \div 3 = 294$$

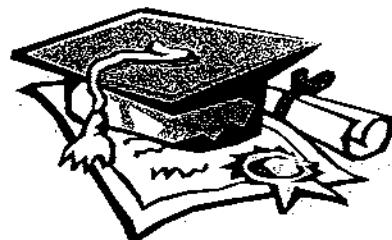
$$882 - 294 = 588$$

$$588 \times 3 = 1470$$

$$1764 - 294 = 1470$$

1470 girls were from
Blackforest Girls' school.

$$18) 210$$





**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Banded Math Class: P5 _____

Date: 29 October 2009 Duration: 50 min

Your Score (Out of 100 marks)			
Your Score (Out of 40 marks)			
		Banded Math Class	Level
PAPER 1 (40%)	Highest Score		
	Average Score		
TOTAL (100%)	Highest		
	Average Score		
Parent's Signature			

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. **NO** calculator is allowed for this paper.

SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

1. A number when rounded off to 2 decimal places is 6.73.
Which one of the following is the number?

- (1) 6.723
- (2) 6.727
- (3) 6.735
- (4) 6.738

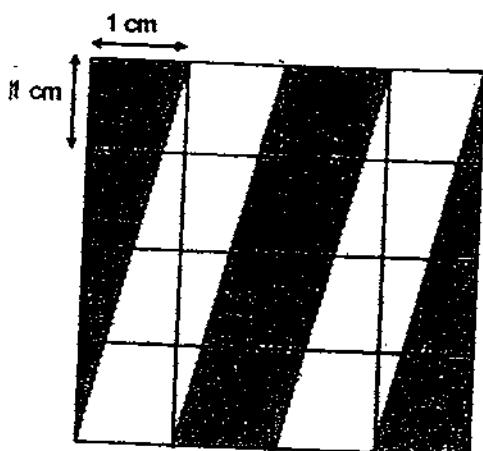
()

2. In $\frac{71}{9} = 7\frac{\square}{9}$, what is the missing number in the box?

- (1) 1
- (2) 2
- (3) 8
- (4) 18

()

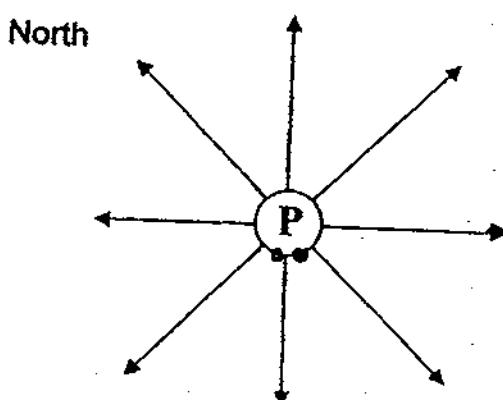
3. Find the area of the shaded region.



- (1) 16 cm^2
- (2) 12 cm^2
- (3) 8 cm^2
- (4) 4 cm^2

()

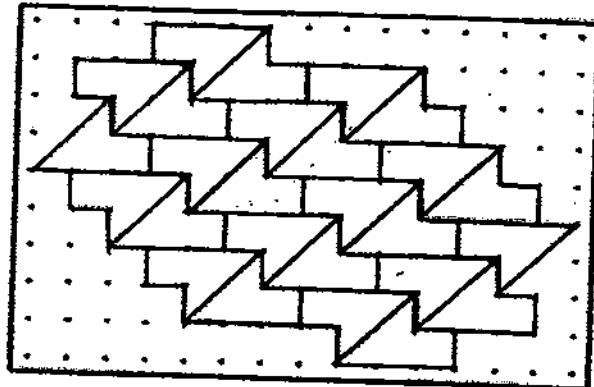
4. Jensen was standing at point P facing the South-West direction. He made a three-quarter turn to his right. Which direction was he facing?



- (1) North-West
- (2) West
- (3) South-East
- (4) East

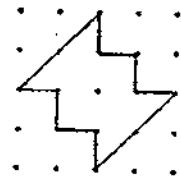
()

5. The pattern in the box below shows part of a tessellation.



Which of the following is the unit shape used in the tessellation above?

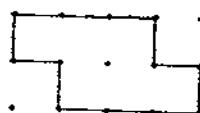
(1)



(2)



(3)



(4)



()

6. A water tank has 375 litres of water. How many 750-ml bottles of water can be filled with the water in the tank?

- (1) 5
(2) 50
(3) 500
(4) 5000

()

7. What is 5% of 240?

- (1) 1.2
- (2) 12
- (3) 120
- (4) 1200

()

8. $12 \frac{1}{50}$ expressed as a decimal is _____.

- (1) 1.22
- (2) 12.2
- (3) 12.02
- (4) 12.002

()

9. The ratio of the number of red beads to the number of blue beads to the number of yellow beads is 2 : 3 : 4. The total number of beads is 180. How many beads are blue?

- (1) 20
- (2) 40
- (3) 60
- (4) 80

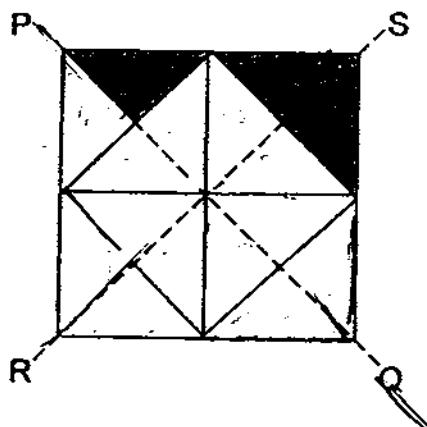
()

10 The average age of Sharon and Ahmad is 6 years. The average age of Sharon and Mary is 8 years. The average age of Mary and Ahmad is 10 years. How old is Mary?

- (1) 16
- (2) 12
- (3) 8
- (4) 4

()

11. The figure below consists of 16 identical triangles. How many more triangles must be shaded to complete the figure which has the dotted lines PQ and RS as lines of symmetry?



- (1) 1
(2) 2
(3) 3
(4) 5

()

12. What is the maximum number of 2-cm squares that can be cut out from a rectangular sheet of paper measuring 25 cm by 20 cm?

- (1) 120
 - (2) 125
 - (3) 130
 - (4) 250

()

- 13. Fill in the blank.**

$$\frac{8}{25} \div 10 = \frac{1}{25} \times \boxed{}$$

- (1) $\frac{4}{5}$
 (2) $\frac{3}{5}$
 (3) 8
 (4) 80

()

14. The ratio of the length of Square A to the length of Square B is 4 : 9.
What is the ratio of the area of Square A to the area of Square B?

- (1) 2 : 3
- (2) 4 : 9
- (3) 16 : 36
- (4) 16 : 81

()

15. A group of boys shared 56 apples equally among themselves.
One of them did not want the apples.
He gave the apples to the rest of the boys and each of them
received one extra apple.
How many boys in the group received a share of the apples at the
end?

- (1) 6
- (2) 7
- (3) 8
- (4) 9

()

SECTION B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following in ascending order:

$$0.738, \quad \frac{3}{5}, \quad 0.387, \quad \frac{1}{9}$$

Ans: _____

17. Joel has 40 fifty-cent coins. Andy has 15 twenty-cent coins.
How much more money does Joel have than Andy?

Ans: \$ _____

18. Minah had $5\frac{1}{3}\ell$ of water. She drank $\frac{3}{4}\ell$ of the water.
How much water did she have left?

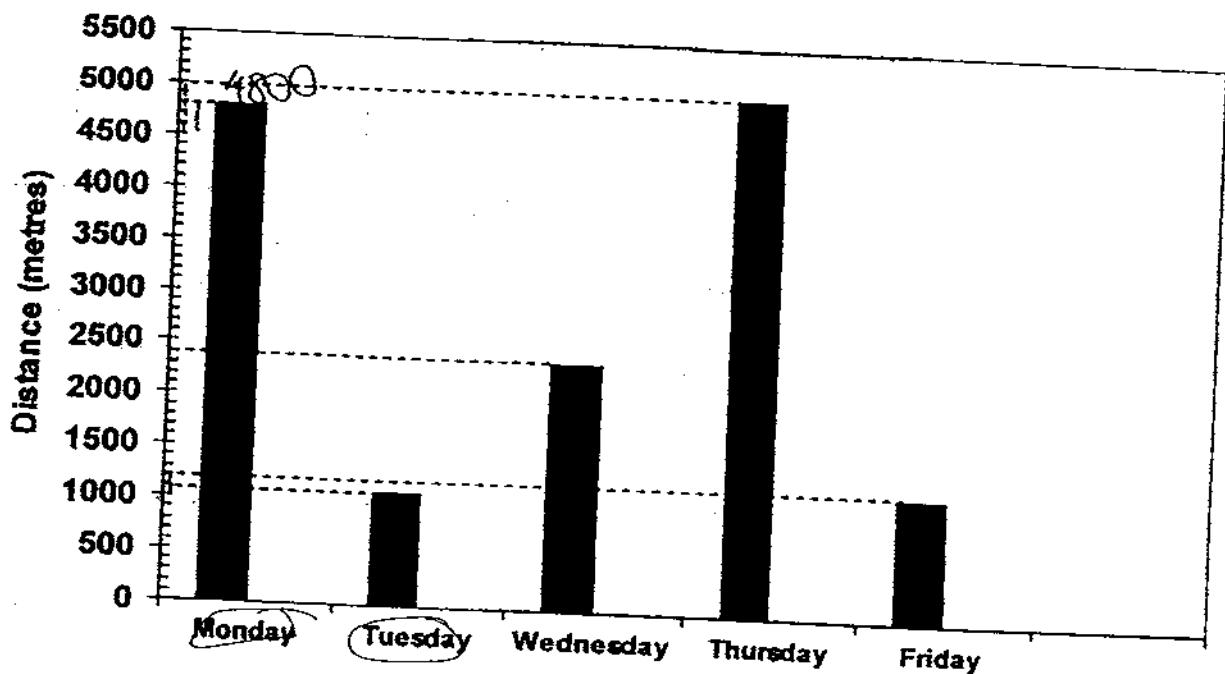
Ans: _____ ℓ

19.

Su Yin has $\frac{3}{4}$ m of ribbon. She cut the ribbon into 6 equal pieces.
What is the length of each piece of ribbon?

Ans: _____ m

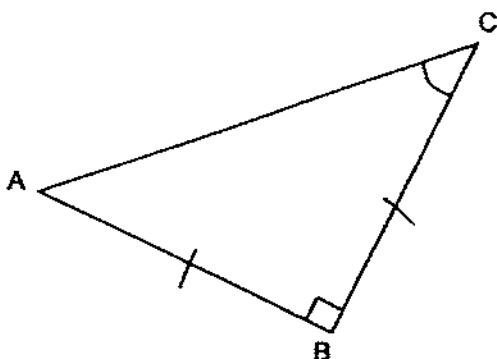
20. The graph below shows the distance jogged by Mr Wong each day.



What was the total distance covered by Mr Wong for Monday and Tuesday?

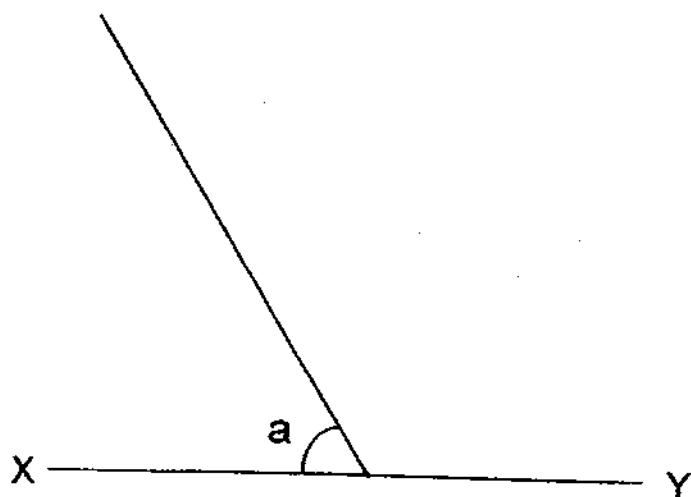
Ans: _____ m

21. Triangle ABC is an right-angled isosceles triangle. Find $\angle ACB$.



Ans: _____ °

22. The figure, on the right, is drawn to scale.
XY is a straight line.
Measure $\angle a$.

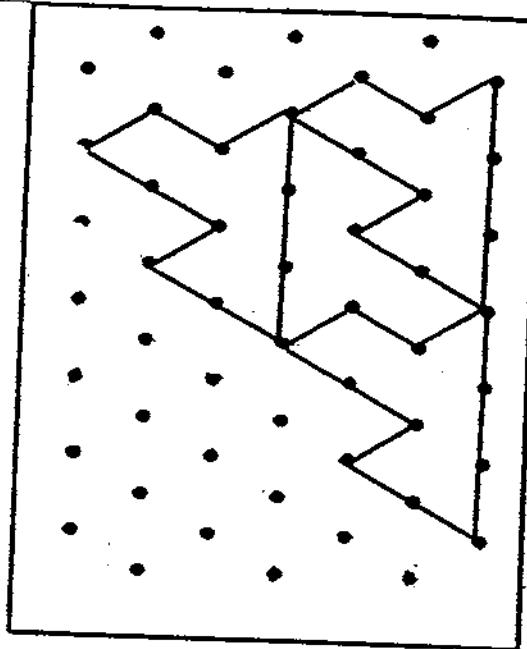


Ans: _____

23. Express 0.08 as a fraction in its simplest form.

Ans: _____

24. The pattern in the box shows a tessellation using a unit shape.
Extend the tessellation by drawing two more unit shapes in the space provided in the box.



25. There are 1800 workers in a factory.
450 of them are female.
What percentage of the workers in the factory are females?

Ans: _____ %

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

ANSWER QUESTION

26. Ali was given 0.18 litres of cough mixture by the doctor. He had to take 10 ml of it every 4 hours. How many days would he take to finish the cough mixture?

Ans: _____ days

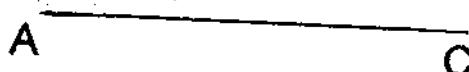
27. The average weekly savings of 10 girls is \$5. The average weekly savings of 5 boys is \$2. What is the average weekly savings of the 15 children?

Ans: \$ _____

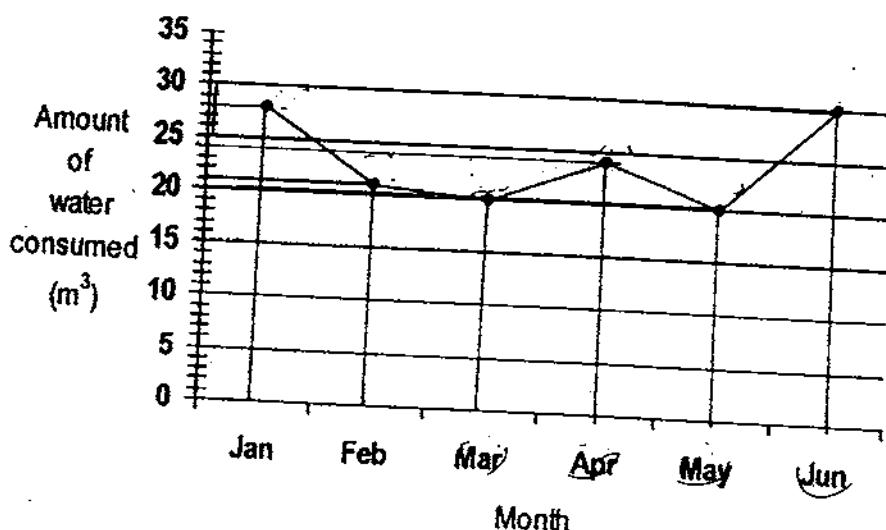
28. The volume of a cuboid is twice the volume of 4 similar cubes. The length of each side of the cube is 4 cm. What is the volume of the cuboid?

Ans: _____ cm^3

29. Line AC is a side of a right-angled isosceles triangle.
Complete the triangle ABC with $\angle ACB = 90^\circ$.



30. The line graph below shows the amount of water consumed by Mr Lee's family from January to June.



The amount of water used is charged at a rate of \$3 per m³. What was the amount paid by Mr Lee's family for the utility bills from March to June?

Ans: \$ _____

© Please check your work carefully ©

Setters: Lee S.K., Wai S. H., Teo W. T.



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Banded Math Class: P5 _____

Date: 29 October 2009

Duration: 1 h 40 min

Your Score (Out of 60 marks)		
	Banded Math Class	Level
Highest Score		
Average Score		

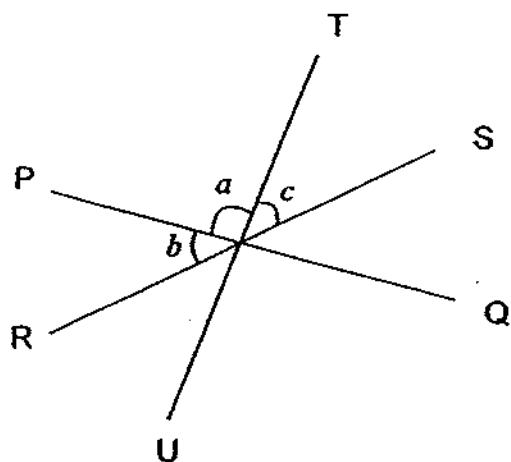
INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

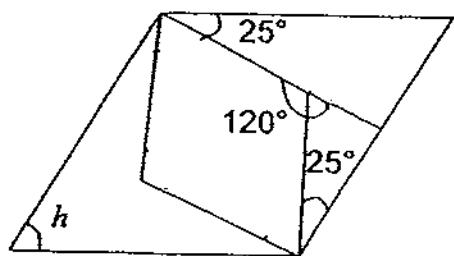
1. In the figure below, PQ, RS and TU are all straight lines.

Given that $\angle a = 75^\circ$ and $\angle b = \angle c$. Find $\angle c$.



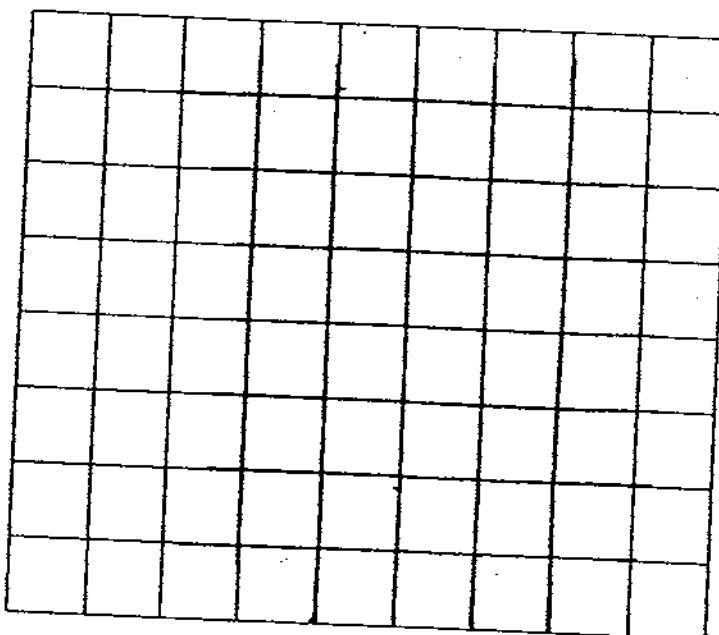
Ans: _____ [2]

2. The figure below is made up of 2 parallelograms. Find $\angle h$.



Ans: _____ [2]

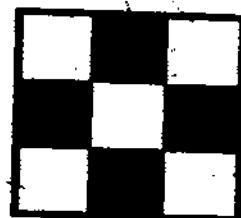
3. Two sides of a parallelogram are drawn on the square grids below. Complete the parallelogram by drawing the other two sides of the parallelogram. [2]



4. Table A below consists of numbers from 1 to 280.
Helen is given a plastic frame with 4 squares shaded that can cover exactly 9 squares of Table A.

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33
...
...	270	271	272	273
274	275	276	277	278	279	280

Table A



Plastic frame

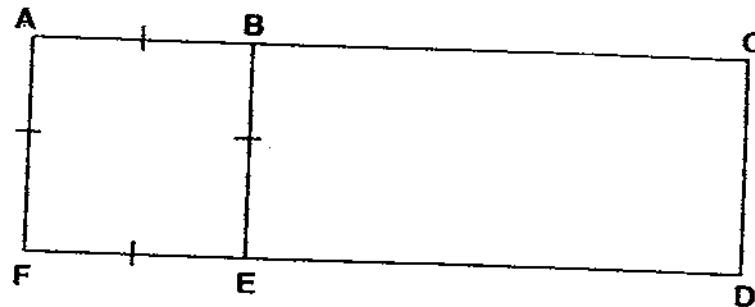
Helen puts the frame on some 9 squares on Table A.

The sum of the 5 numbers that can be seen in the frame is 995.

What is the greatest number that can be seen in the frame?

Ans: _____ [2]

5. The figure ACDF, with an area of 102 cm^2 , is made up of square ABEF and rectangle BCDE.
The area of square ABEF is 36 cm^2 .
What is the length of BC?



Ans: _____ cm [2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in the brackets [] at the end of each question or part-question.

(50 marks)

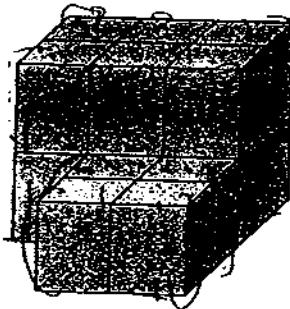
6. A box weighs 95.75 kg when it is filled with Solid A.

The same box weighs 33.5 kg when it is filled with Solid B.

Solid A is six times as heavy as Solid B, what is the mass of the empty box?

Ans: _____ [3]

7. The figure below was made up of similar cubes glued together.



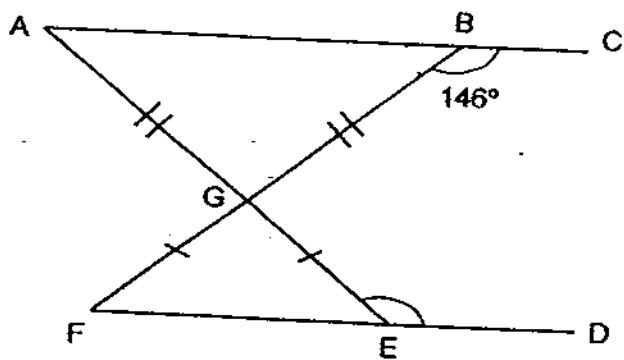
(a) How many cubes were used to make the figure above?

(b) Meiling painted all the faces of the figure in blue.
How many cubes had 3 of its faces painted blue?

Ans: a) _____ [1]

b) _____ [2]

8. In the diagram below, AGE, BGF, ABC and FED are straight lines. Find $\angle GED$.



Ans: _____ [3]

9. Mr Tan's monthly salary is twice Mr Lee's.
His monthly savings is 6 times Mr Lee's.
Given that both of them spend \$1000 monthly, how much money does Mr Tan earn?

Ans: _____ [4]

10. Out of the 40 000 people at a concert, 30% of them were women, 10% of them were children and the rest were men.
Some women left the concert with half the number of children before it ended.
As a result, the percentage of men increased to 75% of the number of people at the concert in the end.
How many women were at the concert in the end?

Ans: _____ [4]

11. There are three neon lights in a shop. The red light flashes every 6 minutes, the purple light flashes every 8 minutes and the yellow light flashes every 12 minutes. All three neon lights flash together when you walk into the shop. Including the flashes you see when you first step into the shop, how many times will you see at least 2 neon lights flash together if you are in the shop for 60 minutes?

Ans: _____ [3]

12. Mrs Chan had some money. She spent half of the money and \$100 more on her shoes. She then spent half of the remainder and \$100 more to buy a watch. She again spent half of the money that was left on a blouse and had \$250 left. How much money did she have at first?

Ans: _____ [4]

13. Priya gave \$800 to her mother.

She then spent $\frac{5}{8}$ of her remaining money to buy a laptop.

If she still had $\frac{3}{10}$ of her money left, how much money did she have at first?

Ans: _____ [4]

14. The series of figures below are made up of dots and lines.

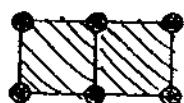


Figure 1

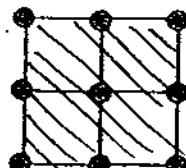


Figure 2

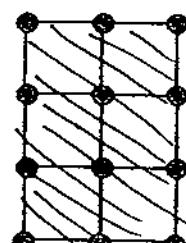


Figure 3

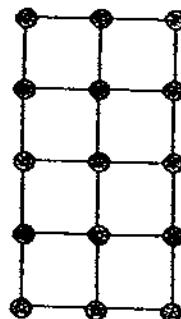


Figure 4

Figure	1	2	3	4
Sum of lines and dots	13	21	29	37

- a) Find the sum of lines and dots in Figure 8.
b) Find the figure which has a sum of 205 lines and dots.

Ans: (a) _____ [1]

(b) _____ [2]

15. A bus driver charges \$80 for every trip that is on time. When he is late, he can only charge \$75.50 per trip.
In September, the bus driver earned \$2359.50. For every 20 trips he made, 6 trips were late. How many trips were on time in September?

Ans: _____ [5]

16. The average height of a group of boys is 1.64 m.
When 2 new boys each of height 1.70 m joined the group, the average height
became 1.65 m.
How many boys were in the group at the end?

Ans: _____ [4]

17. In a school, the ratio of the number of pupils who wear glasses to the number of pupils who do not wear glasses is 11 : 5.

$\frac{2}{3}$ of the boys and $\frac{7}{10}$ of the girls wear glasses.

What is the ratio of the number of boys to the number of girls?

Ans: _____ [5]

18. Mr Muhamad has 3 cubical fish tanks of different size.
The length of Tank A is twice the length of Tank B and the length of Tank B is twice the length of Tank C.
Mr Muhamad filled 20% of Tank A, 35% of Tank B and 40% of Tank C with water at first. He then decided to pour all the water from Tank B and Tank C into Tank A. What percentage of Tank A is filled with water?

Ans: _____ [5]

-End of Paper-
Please check your work carefully ☺

Setters: Lee S.K., Wai S. H., Teo W. T.

Answer Key

EXAM PAPER 2009

**SCHOOL : RAFFLES GIRLS' PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS**

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	3	3	3	2	3	2	3	3	2	4	1	1	4	2

16) $1/9, 0.387, 3/5, 0.738$

17) \$17

18) $47/12$

19) $1/8\text{m}$

20) 5900m

21) 45°

22) 60°

23) $2/25$

24)

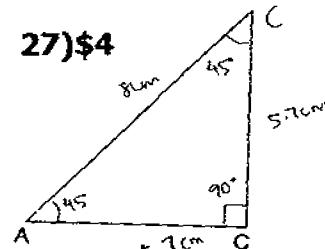
25) 25%

26) $25/6$ days

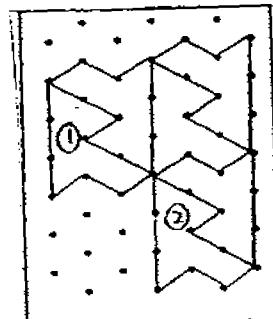
27) \$4

28) 512cm^3

29)



30) \$282



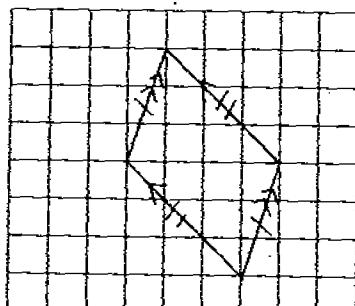
Paper 2

$$1) 180^\circ - 75^\circ = 105^\circ$$

$$105^\circ \div 2 = 52.5^\circ$$

$\angle C$ is 52.5°

3)



$$2) 180^\circ - 120^\circ = 60^\circ$$

$$25^\circ + 60^\circ = 85^\circ$$

$$85^\circ \times 2 = 170^\circ$$

$$180^\circ - 85^\circ = 95^\circ$$

$$180^\circ - 120^\circ = 60^\circ$$

$$180^\circ - 60^\circ - 25^\circ = 95^\circ$$

$$180^\circ - 95^\circ = 85^\circ$$

$$180^\circ - 85^\circ - 25^\circ = 70^\circ$$

$\angle h$ is 70°

4) 207	5) 11cm
<p>6) Box +A=95.75kg Box +B=33.5kg $95.75\text{kg} - 33.5\text{kg} = 62.25\text{kg}$ $62.25\text{kg} \div 5 = 12.45\text{kg}$ $33.5\text{kg} - 12.45\text{kg} = 21.05\text{kg}$ The box weighs 21.05kg</p>	<p>7) a) 16 cubes b) 9 cubes</p>
<p>8) $180^\circ - 146^\circ = 34^\circ$ $180^\circ - 34^\circ - 34^\circ = 112^\circ$ $180^\circ - 112^\circ = 68^\circ$ $68^\circ \div 2 = 34^\circ$ $180^\circ - 34^\circ = 146^\circ$ $\angle \text{GED is } 146^\circ$</p>	<p>9) \$1000 \rightarrow 4 units $\\$1000 \div 4 = \\250 $\\$250 \times 6 = \\1500 $\\$1500 + \\$1000 = \\$2500$ Mr Tan earned \$2500</p>
<p>10) 2400 \rightarrow 75% 75% \rightarrow 3 quarter $2400 \div 3 = 800$ 1 quarter \rightarrow 800 $20 - 4 = 16$ 16 units left Women left \rightarrow 3 units $3 / 20 \times 40000 = 6000$ There are 6000 left.</p>	<p>11) 6 times</p>
<p>12) $\\$250 \times 2 = \\500 $\\$500 + \\$100 = \\$600$ $\\$600 \times 2 = \\1200 $\\$1200 + \\$100 = \\$1300$ $\\$1300 \times 2 = \\2600 She has \$2600 left.</p>	<p>13) \$800 \rightarrow 2 unit 1 unit \rightarrow $\\$800 \div 2 = \\400 $\\$400 \times 8 = \\3200 $\\$3200 + \\$800 = \\$4000$ She has \$4000 at first.</p>
<p>14) a) 69 b) 25</p>	<p>15) $20 - 6 = 14$ $14 \times \\$80 = \\1120 $\\$75.50 \times 6 = \\453 $\\$1120 + \\$450 = \\$1573$ 20 trips \rightarrow 14 fine 6 late $2359.50 \div 1573 = 1.5$ $1.5 \times 14 = 21$ trips.</p>

16) $1.70m \rightarrow 170cm$
 $170cm \times 2 = 340cm$
 $1.65m - 1.64m = 1cm$
 $1.70m - 1.65m = 5cm$
 $5cm + 5cm = 10cm$
 $10 + 2 = 12$
There are 12 boys.

17) $2B + 7G = 11 \text{ units}$
 $1B + 3G \rightarrow 5 \text{ units}$
 $2B + 6G \rightarrow 10 \text{ units}$
 $1G \rightarrow 1 \text{ unit}$
 $10G \rightarrow 10 \text{ units}$
 $1B \rightarrow 2 \text{ unit}$
 $B \rightarrow 3 \times 2 = 6$
 $6 : 10 \rightarrow 3 : 5$
The ratio is 3 : 5

18) 25%



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form Class: P5 _____ Math Teacher: _____

Date: 29 Oct 2015 Duration: 50 min

Your Paper 1 Score (Out of 40 marks)	
Your Paper 2 Score (Out of 60 marks)	
Your Total Score (Out of 100 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. NO calculator is allowed for this paper.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

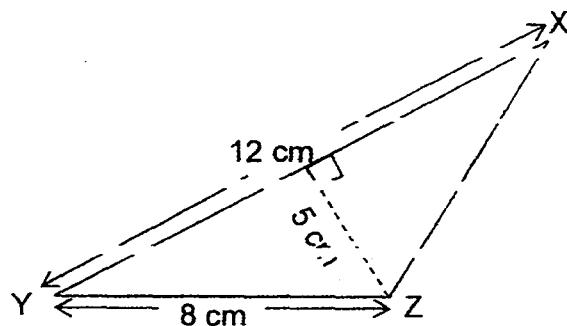
1. Round off 106.135 to the nearest hundredths.

- (1) 100
- (2) 110
- (3) 106.13
- (4) 106.14

2. Express $\frac{32}{5}$ as a mixed number.

- (1) $3\frac{2}{5}$
- (2) $6\frac{2}{5}$
- (3) $7\frac{2}{5}$
- (4) $30\frac{2}{5}$

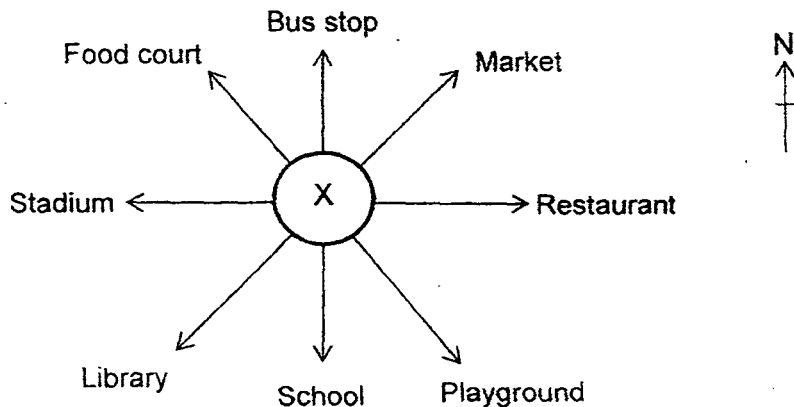
3. Find the area of the triangle XYZ.



- (1) 20 cm^2
- (2) 24 cm^2
- (3) 30 cm^2
- (4) 48 cm^2

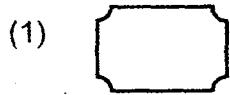
4. Ronnie was standing at the point marked X in the figure below. He was facing the school at first. He turned 135° anti-clockwise and then 270° clockwise.

Where would he be facing now?

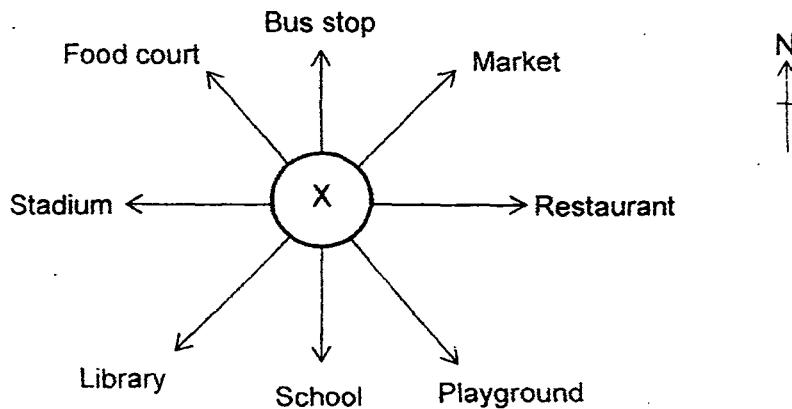


- (1) Market
- (2) Playground
- (3) Food court
- (4) Restaurant

5. Which one of the shapes below can be tessellated?



4. Ronnie was standing at the point marked X in the figure below. He was facing the school at first. He turned 135° anti-clockwise and then 270° clockwise.
Where would he be facing now?

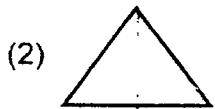


- (1) Market
(2) Playground
(3) Food court
(4) Restaurant
5. Which one of the shapes below can be tessellated?



6. At a shopping centre, the number of toys sold on Sunday was 12 000 when rounded off to the nearest thousands.
Which one of the following could be the actual number of toys sold on that day?
- (1) 12 520
(2) 12 969
(3) 11 592
(4) 11 478
7. The original price of a book was \$20.
Chloe bought the book for \$16 during a sale.
What was the percentage discount given to the book Chloe bought?
- (1) 20%
(2) 25%
(3) 80%
(4) 125%
8. Express $2\frac{3}{4}$ as a decimal.
- (1) 2.25
(2) 2.30
(3) 2.34
(4) 2.75
9. Denise had 8 green stickers, 20 yellow stickers and 12 red stickers.
Find the ratio of the number of red stickers to the total number of stickers.
- (1) 1 : 2
(2) 1 : 5
(3) 3 : 7
(4) 3 : 10

10. Which one of the following figures does not have a line(s) of symmetry?



11. A class has 40 students. Each student eats an average of 4 fruits a week. If one of the students eats 3 more fruits that week, what is the total number of fruits eaten by the class?

- (1) 120
- (2) 123
- (3) 160
- (4) 163

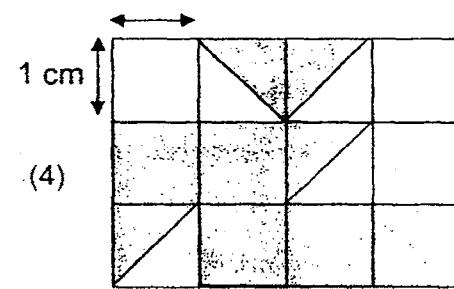
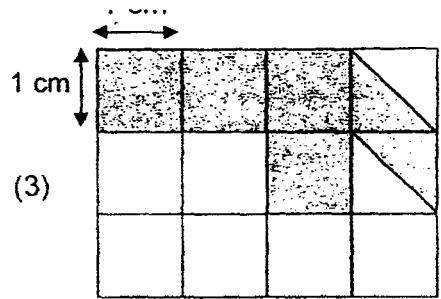
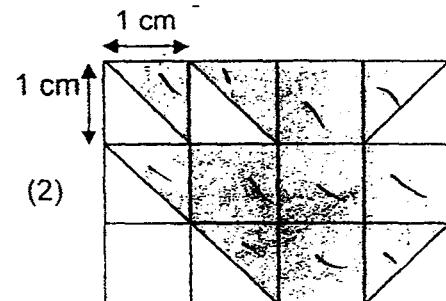
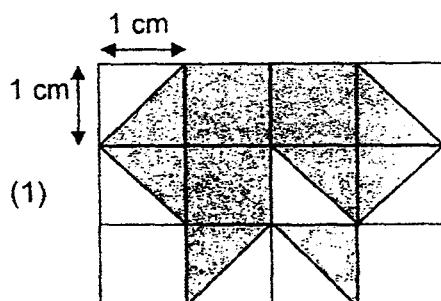
12. Andy, Jenny and Cassie had some money in the ratio 1 : 4 : 6.

Cassie had \$50 more than Andy.

What was the total amount of money Jenny and Cassie had?

- (1) \$10
- (2) \$25
- (3) \$100
- (4) \$250

13. Which of the following figures has the biggest shaded area?



14. Jessica spent $\frac{1}{2}$ of her money on some books. She spent $\frac{1}{6}$ of the remainder

on an ice-cream and had \$15 left. How much did she spend on the books?

- (1) \$18.00
- (2) \$22.50
- (3) \$21.00
- (4) \$36.00

15. Tom had 36 red beads and John had 28 green beads. Each of them packed their own beads equally into smaller bags. After packing, they had the same number of beads in each bag.

How many bags of beads did Tom have?

- (1) 16
- (2) 9
- (3) 7
- (4) 4

Questions 16 to 25 carry 1 mark each.

Write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following from the smallest to the largest.

$$1.2, \quad 1\frac{1}{8}, \quad 1.08, \quad \frac{4}{3}$$

Ans: _____, _____, _____

17. Find the value of 0.35×60 .

Ans: _____

18. Jay is shorter than Lina.

Rex is taller than Jay.

Ali is shorter than Rex but taller than Lina.

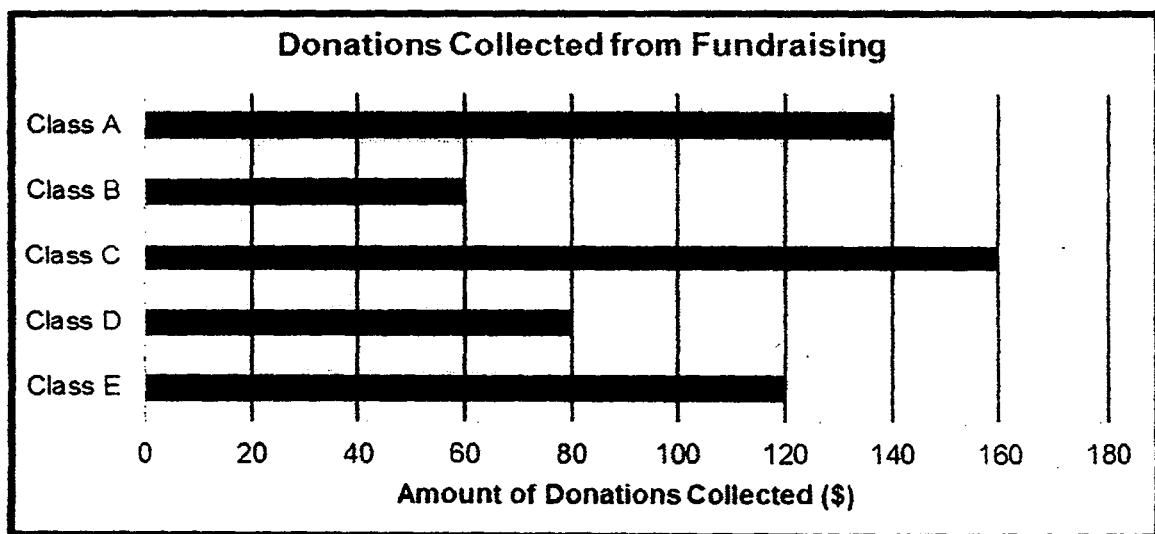
Who is the tallest?

Ans: _____

19. A class of 20 pupils is given $\frac{2}{3}$ m of ribbon each. What is the total length of ribbon the class of pupils received? Express your answer as a mixed number in the simplest form.

Ans: _____ m

20. The bar graph below shows the amount of donations each class collected from a fundraising event.



What was the total amount collected by classes A, C and D?

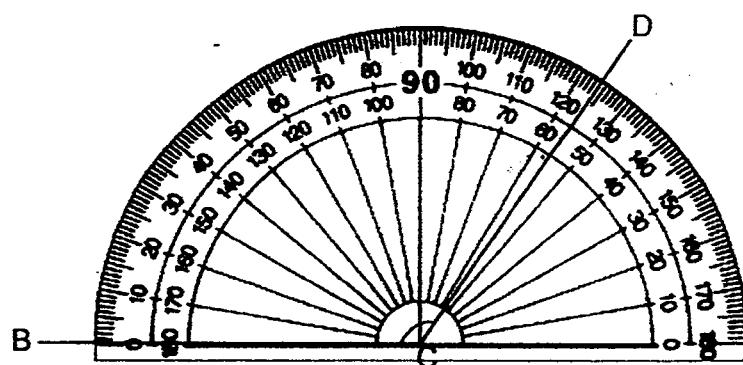
Ans: \$ _____

21. The table below shows the number of rainy days in Singapore from January to May. Find the average number of rainy days from January to May.

Month	Rainy Days
January	19
February	13
March	17
April	21
May	20

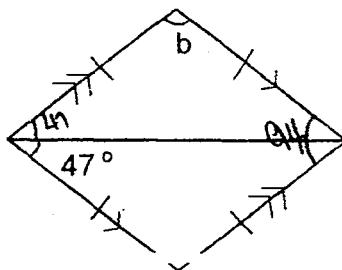
Ans: _____

22. In the figure below, find the $\angle BCD$.



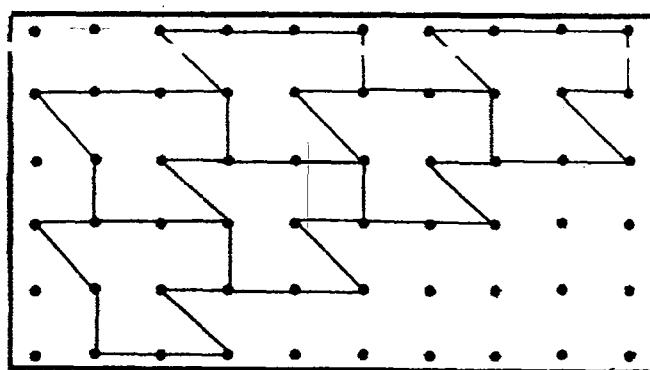
Ans: _____

23. The figure below is a rhombus.
Find $\angle b$ in the figure below.



Ans: _____

24. The pattern in the box below shows part of a tessellation.
Extend the tessellation by drawing two more unit shapes in the space provided within the box.



25. There are 200 animals in an animal shelter. There are 80 dogs, 90 cats and the rest are rabbits. What percentage of the animals are rabbits?

Ans: _____ %

Questions 26 to 30 carry 2 marks each.

Show your working clearly in the space provided for each question and write your answers in the space provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form.

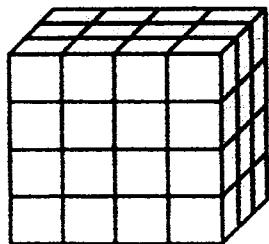
26. Mrs Lim uses $\frac{2}{5}$ kg of flour to bake a cake. What is the number of such cakes she can bake with 4 kg of flour?

Ans: _____

27. Jon made some lemonade by adding 2 ℓ of water and 600 mℓ of lemon juice into a container. He then poured it equally into 8 cups.
How many litres of lemonade was there in each cup?

Ans: _____ ℓ

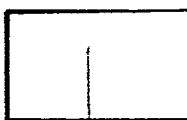
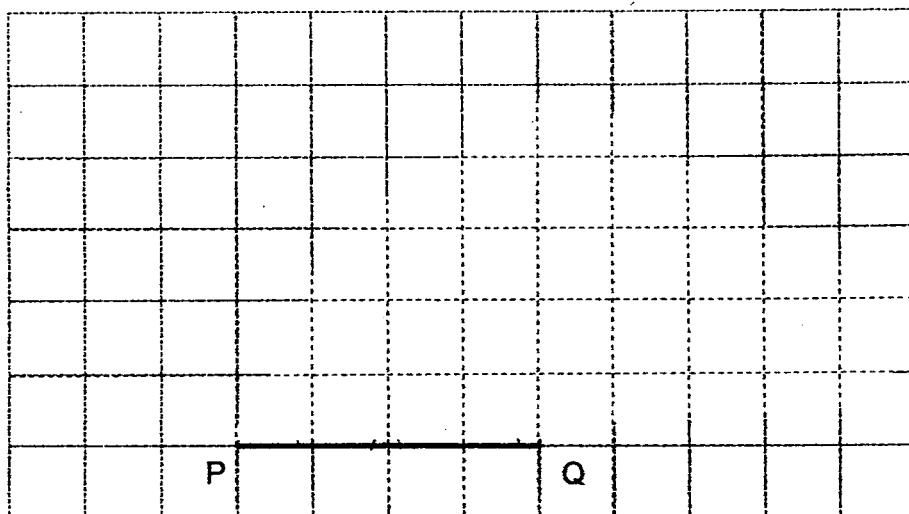
28. The figure below shows a cuboid made up of some identical 1-cm cubes. What is the volume of the cuboid after 6 cubes have been removed?



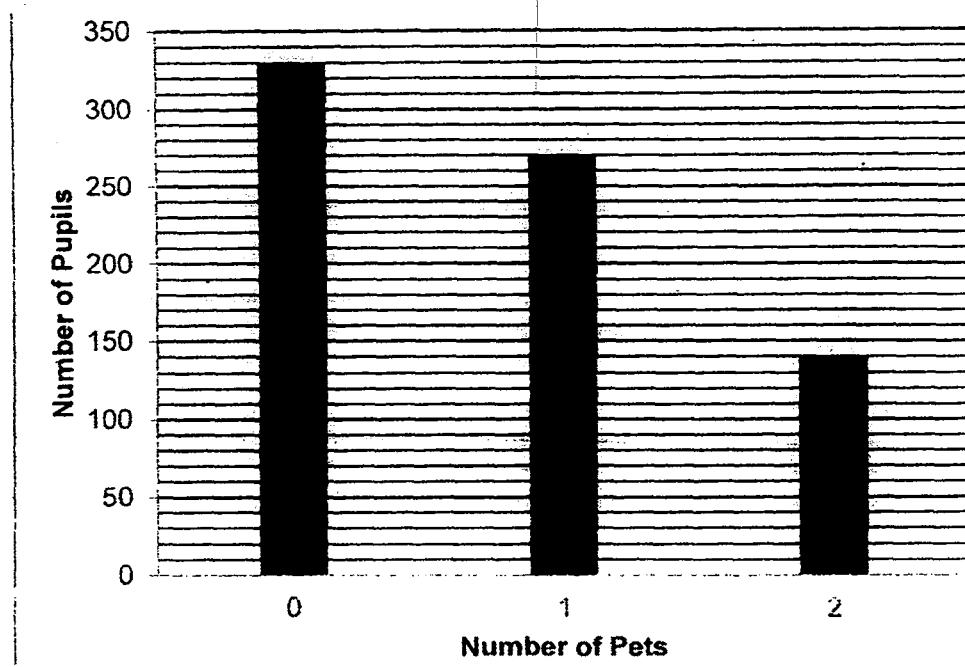
Ans: _____ cm³

29. In the space below, complete the drawing of triangle PQR, in which $PQ = QR$ and $\angle PQR = 90^\circ$.

The line PQ has been drawn for you.



30. Class 5T did a survey on the number of pets each pupil had.
The results of the survey are shown in the bar graph below.

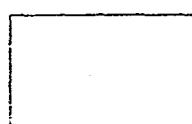


Find the total number of pets that are owned by pupils who have 2 or fewer pets.

Ans: _____

End of Paper
☺ Please check your work carefully ☺

Setters : Ms Kim Ang
Ms Tan Li Zhen
Mdm Wirda Sukor





**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Math Teacher: _____

Date: 29 Oct 2015 Duration: 1 h 40 min

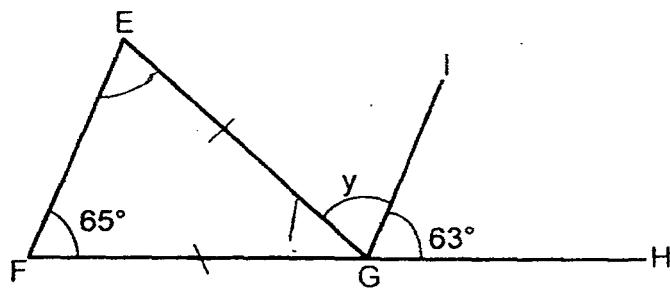
Your Paper 2 Score (Out of 60 marks)	
---	--

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

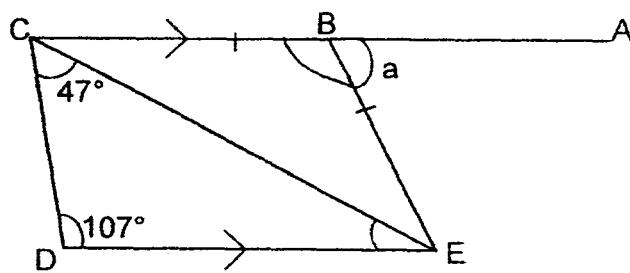
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.
Figures are not drawn to scale.
For questions which require units, give your answers in the units stated. (10 marks)

1. In the figure below, EFG is an isosceles triangle and FGH and GI are straight lines. Find $\angle y$.



Ans: _____ ° [2]

2. In the figure below, ABC is a straight line. CBE is an isosceles triangle. CB and DE are parallel lines. Find $\angle a$.

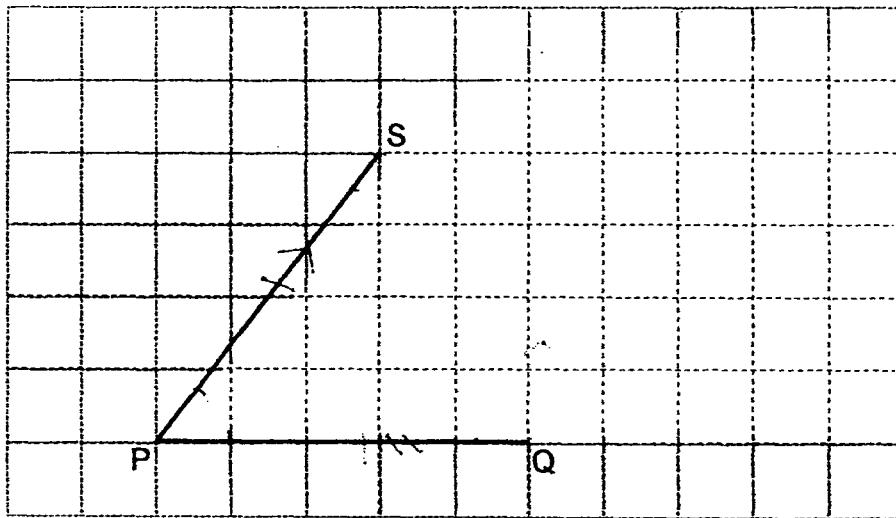


Ans: _____ ° [2]

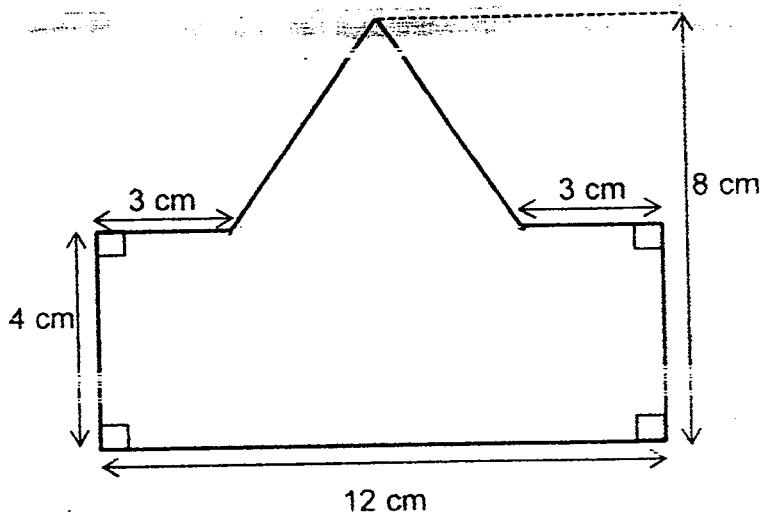
3. Mrs Lee baked 2000 cookies. She gave her two children 350 cookies each and baked another 450 cookies. How many cookies did she have in the end?

Ans: _____ [2]

4. In the figure below, PQ and PS are two sides of a rhombus PQRS.
Complete the rhombus by drawing two more lines in the square grid below. [2]



5. Find the area of the figure below.



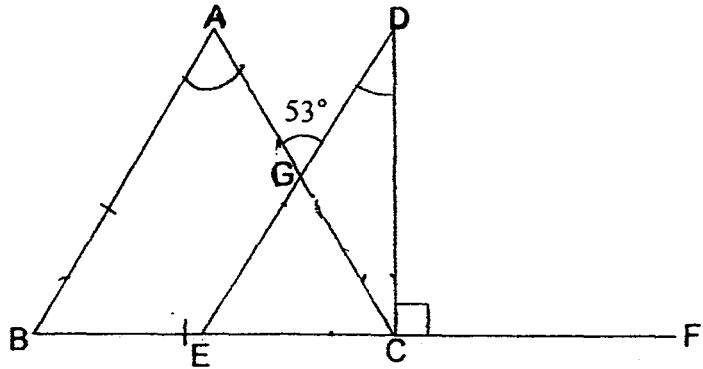
Ans: _____ cm^2 [2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.
Figures are not drawn to scale.
The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. Ann and Bella went to buy some identical files and writing pads from a bookstore. Ann paid \$33 for 2 files and 2 writing pads.
Bella paid \$71.10 for 5 files and 2 writing pads.
How much would 5 files cost at this bookstore?

Ans : _____ [3]

7. In the figure, ABC is an equilateral triangle. BECF is a straight line.
 $\angle AGD$ is 53° . Find $\angle EDC$.



Ans: _____ [3]

8. 40 pupils from Class 4A sat for a test. The average score for the test was 76.8.
Later, it was discovered that the score of one pupil was wrongly recorded as 62. After correcting the score, the average score of the class was 77.2.
What was the actual score of this pupil?

Ans: _____ [3]

9. Rachel had 96 marbles and Jane had 300 marbles. Mr Loh gave each of them an equal number of marbles. After that, Jane had three times as many marbles as Rachel.
- (a) How many marbles did Mr Loh give to Rachel?
(b) In the end, how many marbles did the girls have altogether?

Ans: a) _____ [3]
b) _____ [1]

10. Jaya Primary School had 2480 pupils altogether. There were 420 more girls than boys in the school.

(a) What is the percentage of the boys in Jaya Primary School?

Round off your answer to 2 decimal places.

(b) 60% of the boys and 30% of the girls of the school participated in a swimming competition.

What is the difference between the number of boys and number of girls who participated in the competition?

Ans : (a) _____ [2]

(b) _____ [2]

11. The parking charges at a shopping centre are as follows:

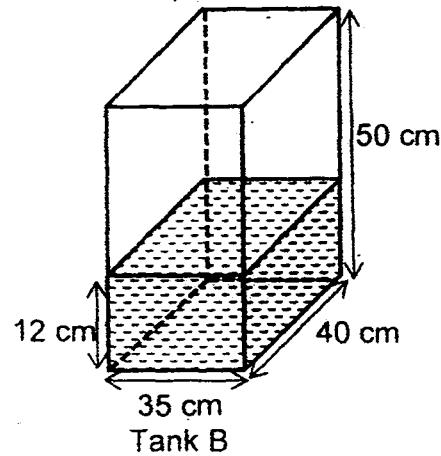
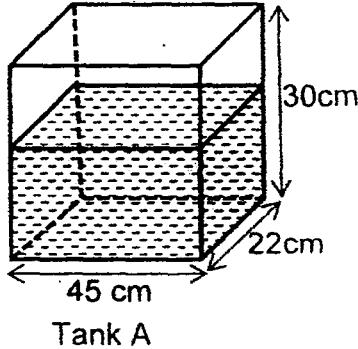
First hour or less	\$2.50
Every subsequent hour or part thereof	\$1.10

Mrs Chan parked her car at the shopping centre from 1.25 p.m. to 7 p.m.. How much would she have to pay for the parking?

Ans: _____ [3]

12. The diagram below shows tank A and tank B filled with some water initially.

Tank A measuring 45 cm by 22 cm by 30 cm is $\frac{2}{3}$ filled with water.



(a) Find the volume of water in Tank A.

(b) Ray poured all the water from Tank A to Tank B without spilling.

How much more water is needed to fill Tank B to its brim?

Ans: (a) _____ [1]

(b) _____ [3]

13.

**Mama Mia Buffet
Restaurant**

All you can eat buffet dinner

Adult \$ 62*
Child(12 years& below) \$ 32*

* The prices above are before GST

Monday to Sunday
For a Limited time only!



The advertisement above shows the pricing of a buffet dinner at Mama Mia Buffet Restaurant.

- (a) How much does an adult pay for his buffet dinner at the restaurant after 7% GST?
- (b) Some adults and one child went for the buffet dinner at Mama Mia Buffet Restaurant. They paid \$ 365.94 in total after 7% GST.
How many adults went for the dinner?

Ans: (a) _____ [1]

(b) _____ [3]

14. At a bus interchange, 23 more adults than children boarded a bus. When the bus reached Bus Stop Y, 12 adults alighted and 5 children boarded it. When the bus reached Bus Stop Z, only 10 children alighted. In the end, there were 3 times as many adults as children left on the bus.

- (a) How many children were left on the bus after 10 children alighted at Bus Stop Z?
- (b) How many adults boarded the bus at the bus interchange?

Ans: (a) _____ [2]

(b) _____ [2]

15. Amir had 72 coins that were either 20¢ or 50¢ coins. He paid for 3 books at \$8 each, and he still had \$7.20 left.
How many 50¢ coins did Amir have at first?

Ans: _____ [4]

16. Aini receives an allowance of \$2.20 while Lisa receives 40¢ more than her every day. Every day, Aini saves 90¢, which is three times as much as what Lisa saves every day.

- (a) How many days will Lisa take to save \$15.60?
- (b) How much would Lisa have spent when Aini has spent \$185.90?

Ans: (a) _____ [2]

(b) _____ [3]

18. Ali has a box of red and green marbles. If he puts in 10 more red marbles, there will be $\frac{1}{5}$ as many red marbles as green marbles in the box. If he removes 20 red marbles from the box, the ratio of the number of red marbles to green marbles is 2 : 25.

- a) How many red marbles are there in the box?
- b) Find the total number of red and green marbles in the box.

Ans: (a) _____ [3]

(b) _____ [2]

**End of Paper
Please check your work carefully ☺**

Setters : Ms Kim Ang
Ms Tan Li Zhen
Mdm Wirda Sukor

17. There are some pupils in a class.

$\frac{3}{8}$ of the girls and $\frac{3}{5}$ of the boys of the class can swim.

20 pupils of the class cannot swim. There is an equal number of boys and girls who cannot swim.

How many pupils are there in the class?

Ans: _____ [4]

EXAM PAPER 2015

LEVEL : PRIMARY 5

SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL

SUBJECT : MATHEMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	3	3	4	3	1	4	4	3
Q11	Q12	Q13	Q14	Q15					
4	3	2	1	2					

Q1. 67°

$$65 \times 2 = 130$$

$$180 - 130 = 50$$

$$50 + 63 = 113$$

$$180 - 113 = 67$$

Q2. 52°

$$107 + 47 = 154$$

$$180 - 154 = 26$$

$$26 \times 2 = 52$$

$$180 - 52 = 128$$

$$180 - 128 = 52$$

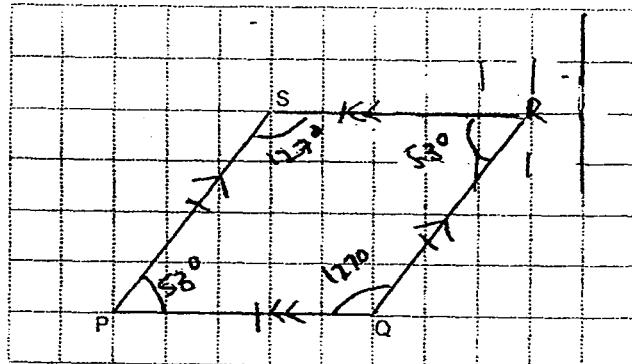
Q3. 1750 cookies

$$350 \times 2 = 700$$

$$2000 - 700 = 1300$$

$$1300 + 450 = 1750$$

Q4. SEE PICTURE



Q5. 60cm^2

$$\frac{1}{2} \times 4 \times 6 = 12$$

$$4 \times 12 = 48$$

$$48 + 12 = 60$$

Q6. \$63.50

$$2f = \$33$$

$$5f = \$71.10$$

$$3f = \$38.10$$

$$1f = \$12.70$$

$$5f = \$63.50$$

Q7. 23°

$$90 + 60 = 150$$

$$180 - 100 = 30$$

$$53 \times 2 = 106$$

$$360 - 106 = 254$$

$$254 \div 2 = 127$$

$$127 + 30 = 157$$

$$180 - 157 = 23$$

Q8. 78 marks

$$76.8 \times 40 = 3072$$

$$77.2 \times 40 = 3088$$

$$3088 - 3072 = 16$$

$$62 + 16 = 78$$

Q9a. 6 marbles

$$204 \div 2 = 102, 1u \rightarrow 102$$

Q9b. 408 marbles

$$3+1 = 4, 4 \times 102 = 408$$

Q10a. 41.53%

$$2480 - 420 = 2060$$

$$2060 \div 2 = 1030$$

$$\frac{1030}{2480} \times 100 \approx 41.53\%$$

Q10b. 183 boys

$$1030 + 420 = 1450 \text{ (girls)}$$

$$1\% \rightarrow 10.3$$

$$60\% \rightarrow 618$$

Q11. \$8

$$4\text{hr} + 35\text{min} \approx 5\text{hr}$$

$$5 \times 1.10 = 5.50$$

$$5.50 + 2.50 = 8$$

Q12a. 19800

$$30 \div 3 = 10$$

$$10 \times 2 = 20$$

$$20 \times 45 \times 22 = 19800$$

Q12b. 33.4 litre
 $50 \times 40 \times 35 = 16800$
 $70000 - 16800 - 19800 = 33400$
 $33400 \div 1000 = 33.4$

Q13a. \$66.34
100% → 62
1% → 0.62
7% GST of \$62 is \$4.34,
Total → \$62 + \$4.34 = \$66.34

Q13b. 5 adults
107% → 365.94
1% → 3.42
100% → 342
 $342 - 32 = 310$
 $310 \div 62 = 5$

Q14a. 8 children
 $23 + 5 = 28$
 $28 - 12 = 16$
 $16 \div 2 = 8$

Q14b. 36 adults
Adults left at BS Y 5 + 11 = 16
Adults at BS at first 24 + 12 = 36

Q15. 56 girls
 $3 \times 8 = 24$
 $24 + 7.20 = 31.20$
Assume all are 20¢ coins
 $20¢ \times 72 = 14.4$
 $31.20 - 14.4 = 16.8$
 $50¢ - 20¢ = 30¢$
 $16.8 \div 0.30 = 56$

Q16a. 52 days
 $2.20 + 0.40 = 2.60$
 $90 \div 3 = 30¢$
 $15.60 \div 0.30 = 52$

Q16b. \$328.90
 $2.20 - 0.90 = 1.30$
 $185.90 \div 1.30 = 143$
 $260 - 0.30 = 2.30$
 $2.30 \times 143 = 328.90$

Q17. 41 pupils

$$20 \div 20 = 1$$

$$16 + 25 = 41$$

$$41 \times 1 = 41$$

Q18a. 40 marbles

$$3 \text{ units } 30$$

$$1 \text{ unit } 10$$

$$5 \text{ units } 50$$

$$50 - 10 = 40$$

Q18b. 290 marbles

$$10 \times 25 = 250$$

$$250 + 40 = 290$$

THE END



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

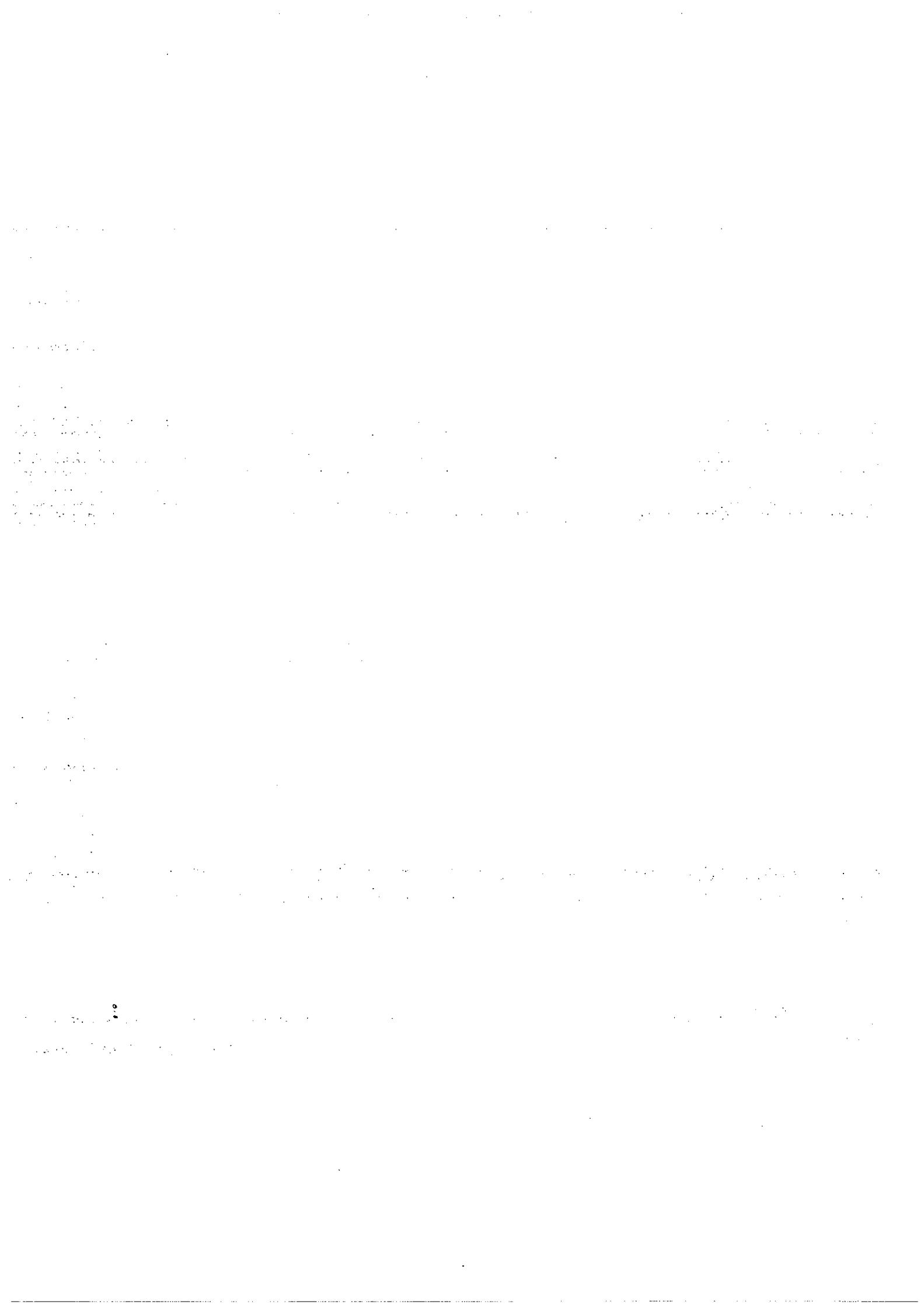
Form Class: P5 _____ Banded Math Class: P5 _____

Date: 23 October 2012 Duration: 50 min

Your Score (Out of 100 marks)			
Your Score (Out of 40 marks)			
		Banded Math Class	Level
PAPER 1 (40%)	Highest Score		
	Average Score		
TOTAL (100%)	Highest		
	Average Score		
Parent's Signature			

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. **NO** calculator is allowed for this paper.



SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

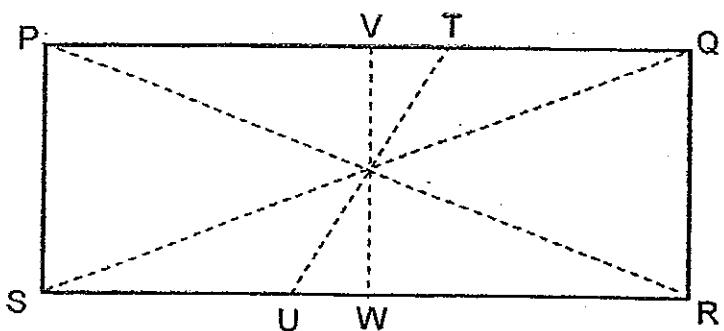
1. Round off 7.645 to the nearest hundredths..

- (1) 7.60
- (2) 7.64
- (3) 7.65
- (4) 7.70

2. How many fifths are there in $2\frac{3}{5}$?

- (1) 10
- (2) 11
- (3) 13
- (4) 23

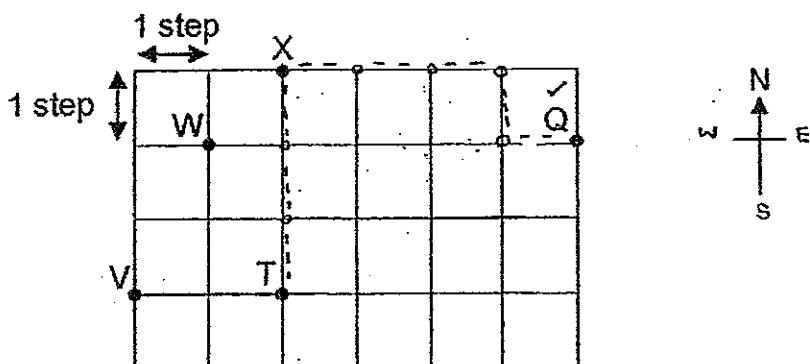
3. Figure PQRS is a rectangle where $PV = VQ$, $SW = WR$.



Which of the following line(s) is/are line(s) of symmetry?

- (1) UT
- (2) VW
- (3) PR and QS.
- (4) PQ, SR and VW

4. Study the diagram below.



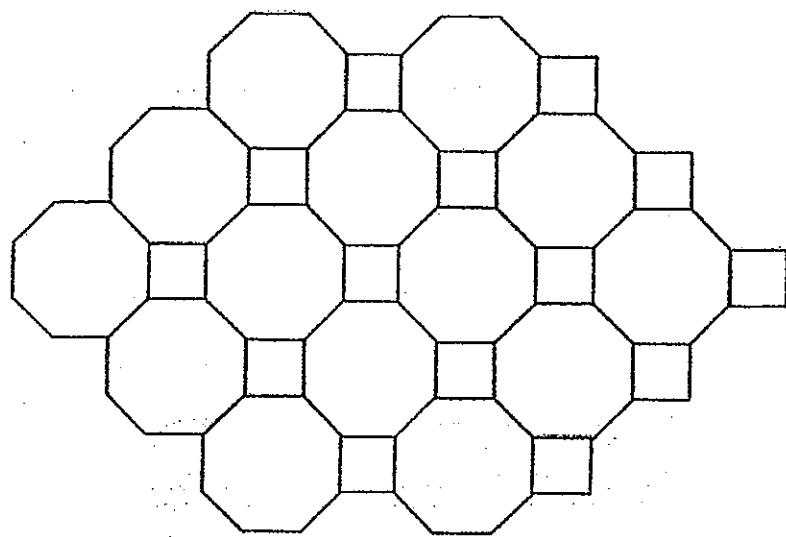
Danny started at a certain position.

He walked 3 steps north, 3 steps east, 1 step south and 1 step east again.

He ended at Q. What was his starting position?

- (1) V
- (2) W
- (3) X
- (4) T

5. The pattern below shows part of a tessellation.

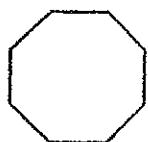


Which one of the following shapes can be used to form the above tessellation?

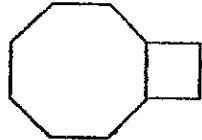
(1)



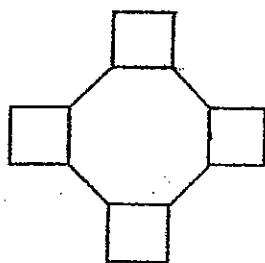
(2)



(3)



(4)



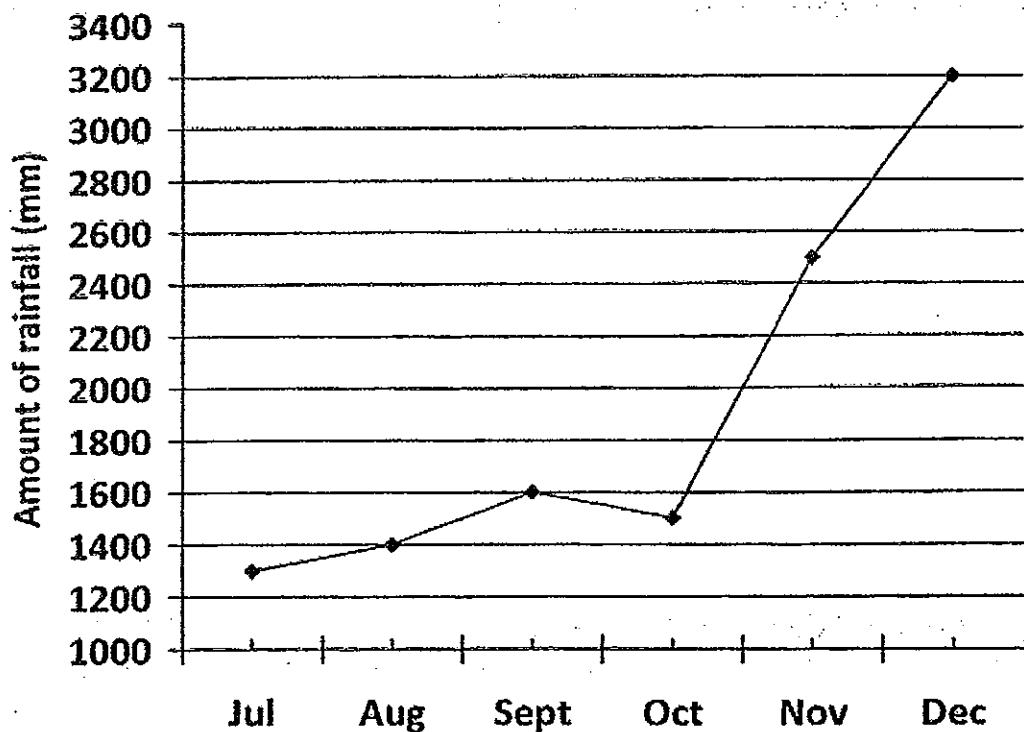
6. The population in a neighbourhood is 1 000 000 when rounded off to the nearest ten thousands.

Which of the following can be the actual population in the neighbourhood?

- (1) 987 960
- (2) 995 052
- (3) 1 005 987
- (4) 1 049 079

()

7. The graph below shows the amount of rainfall in each month from July to December.



Between which two consecutive months was the increase in the amount of rainfall the greatest?

- (1) July and August
- (2) August and September
- (3) October and November
- (4) November and December

()

7

8. Express $\frac{11}{8}$ as a decimal correct to 2 decimal places.

- (1) 0.38
- (2) 0.73
- (3) 1.37
- (4) 1.38

()

9. The ratio of Mr Rahman's salary to Mr Tan's salary is 9 : 5.
What fraction of the total salary is Mr Tan's salary?

- (1) $\frac{5}{9}$
- (2) $\frac{5}{14}$
- (3) $\frac{9}{14}$
- (4) $\frac{14}{5}$

()

10. Miss Lim bought 3 durians.

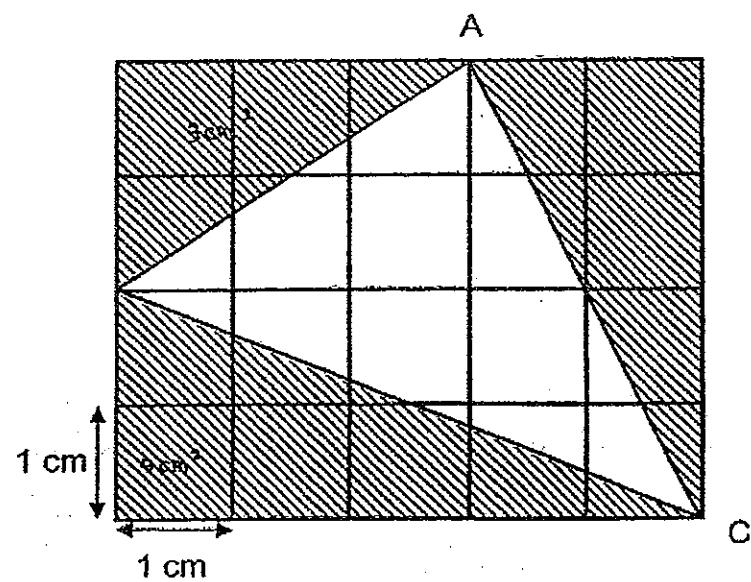
One durian had a mass of 1.4 kg and the other two durians had an average mass of 1.7 kg.

Find the total mass of the three durians.

- (1) 3.1 kg
- (2) 3.4 kg
- (3) 4.8 kg
- (4) 9.3 kg

()

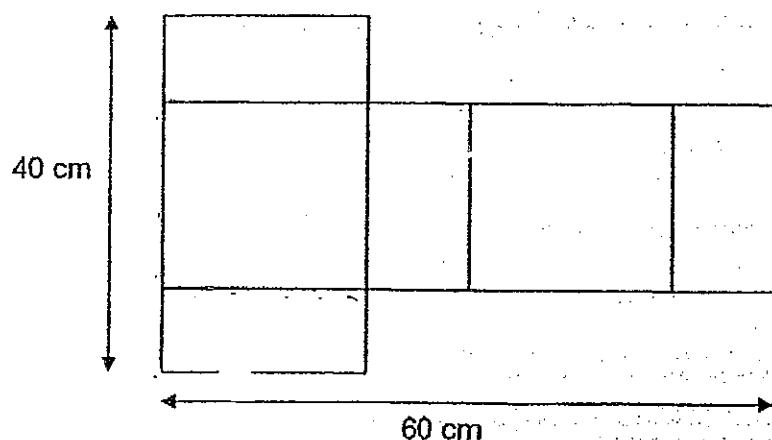
11. The area of the unshaded triangle ABC is _____.



- (1) 6 cm^2
- (2) 8 cm^2
- (3) 10 cm^2
- (4) 12 cm^2

()

12. The figure below is made up of 2 identical squares and 4 identical rectangles. Find the area of the figure.



- (1) 1200 cm^2
- (2) 1600 cm^2
- (3) 2400 cm^2
- (4) 2800 cm^2

()

13. Mrs Tan bought 144 fruits.

$\frac{1}{3}$ of the fruits were apples, $\frac{1}{4}$ of the fruits were pears and the rest were oranges. How many oranges did Mrs Tan buy?

- (1) 24
- (2) 48
- (3) 60
- (4) 84

()

14. Sam and Lynn shared a sum of money in the ratio 1 : 5 respectively.

When Lynn gave Sam \$210, the ratio of Sam's amount of money to Lynn's amount of money became 2 : 1.

How much was the sum of money?

- (1) \$180
- (2) \$210
- (3) \$420
- (4) \$630

()

15. The flight from Singapore to London takes 13 h 25 min.

A plane departed from Singapore at 0905. Given that Singapore's time is ahead of London by 7h, what time did the plane arrive in London?

(Assume there was no delay in the flight)

- (1) 0730
- (2) 1530
- (3) 1630
- (4) 2230

()

SECTION B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following in descending order.

7.35, 7.513, 7.53, 7.315

Ans: _____

17. Find the value of $29.16 \div 40$.

Ans: _____

18. A softball bat is $\frac{4}{5}$ m long. A floorball stick is $\frac{1}{2}$ m longer than the softball bat.

Find the length of the floorball stick.

Ans: _____ m

19. Sarah and her two brothers shared one pizza for lunch.

Sarah ate $\frac{1}{4}$ of the pizza and her two brothers shared the rest of the pizza equally.

What fraction of the pizza would each brother get?

Ans: _____

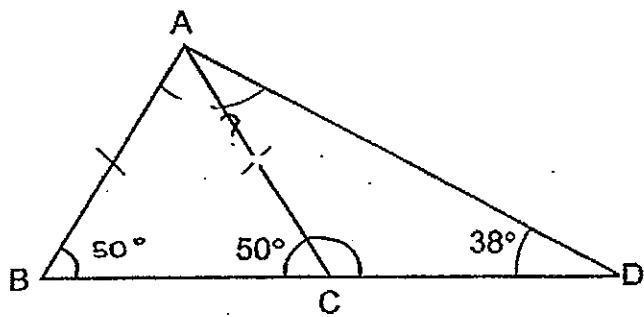
20. There were some pears in a box.

25% of the pears were spoilt and the remaining 33 pears were sold.
How many pears were there in the box at first?

Ans: _____

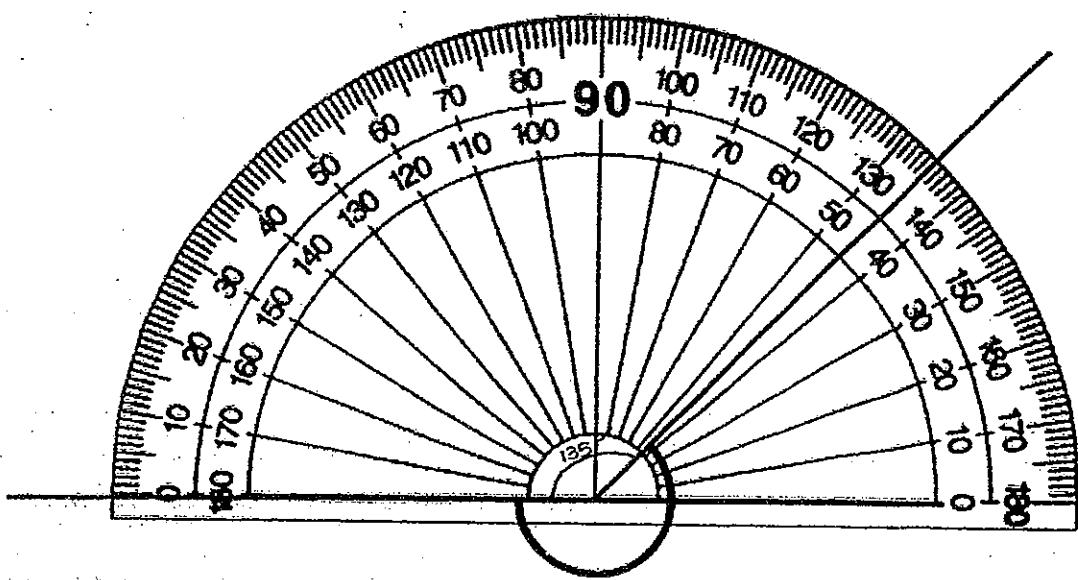
21. In the figure below, not drawn to scale, ABC is an isosceles triangle.

$\angle ACB$ is 50° . BCD is a straight line. Calculate $\angle BAD$.



Ans: _____ °

22. What is $\angle q$?

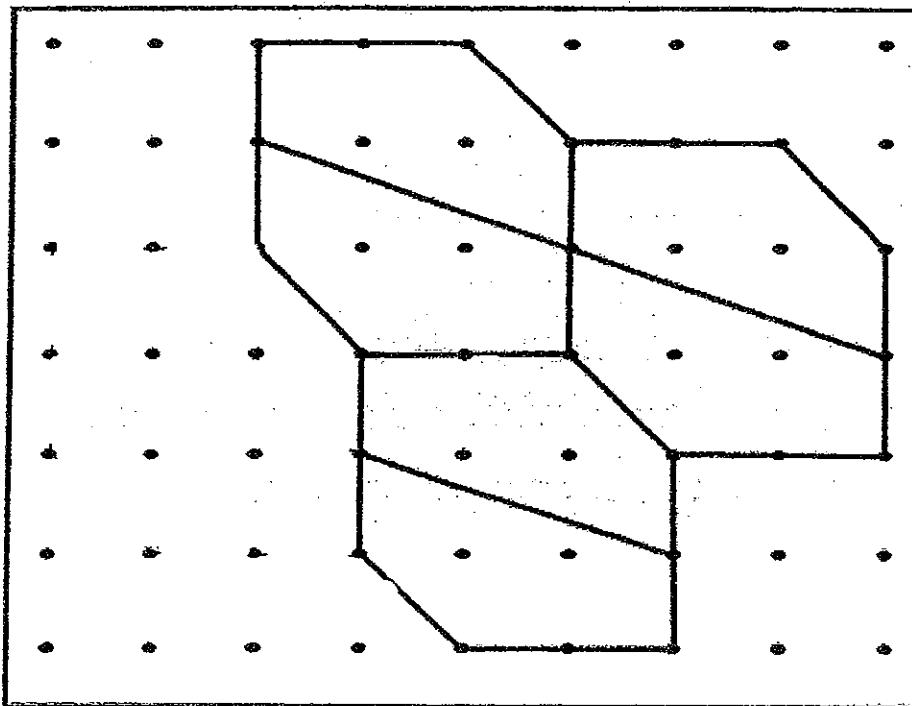


Ans: _____ °

23. There are three boxes: Box A, Box B and Box C.
The total mass of Box A and Box B is the same as the mass of Box C.
Box C has a mass of 12 kg.
What is the average mass of the three boxes?

Ans: _____ kg

24. Extend the tessellation by drawing 2 more unit shapes in the space provided within the box. (Note: use a ruler)

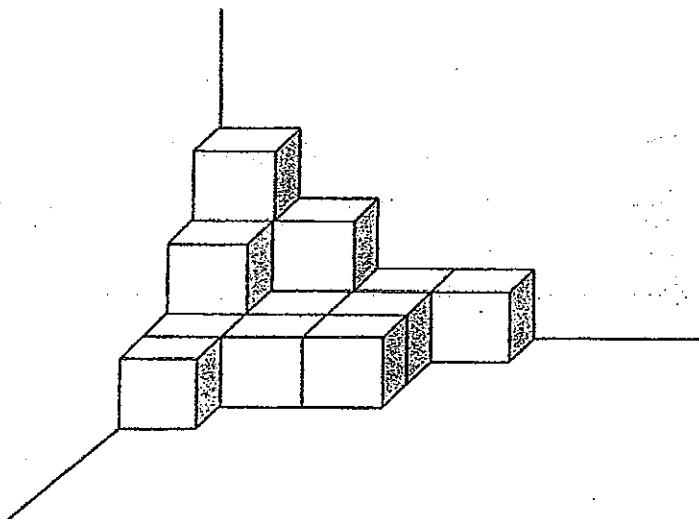


25. In a class, there are 40 students. 24 are boys.
What percentage of the class are girls?

Ans: _____ %

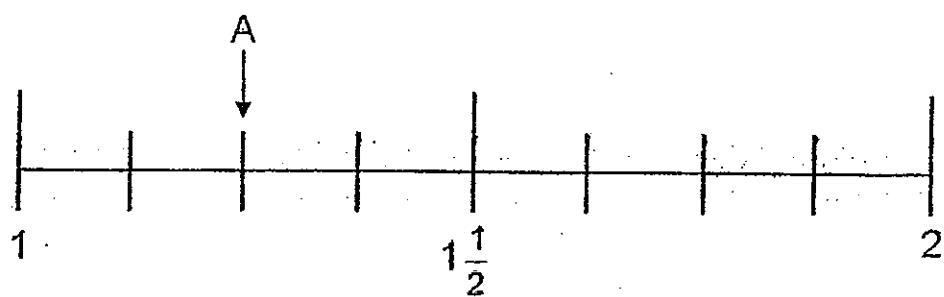
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

26. The figure below is made up of identical 1 cm-cubes. Find the volume of the figure.



Ans: _____ cm^3

27. What is the value of A? Express your answer as a decimal.

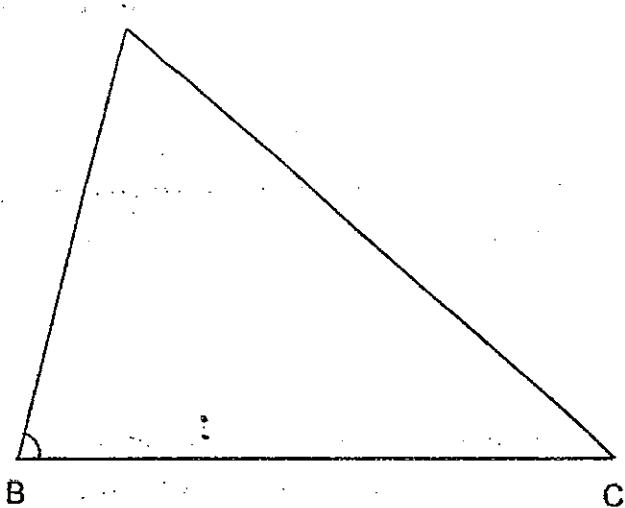


Ans: _____

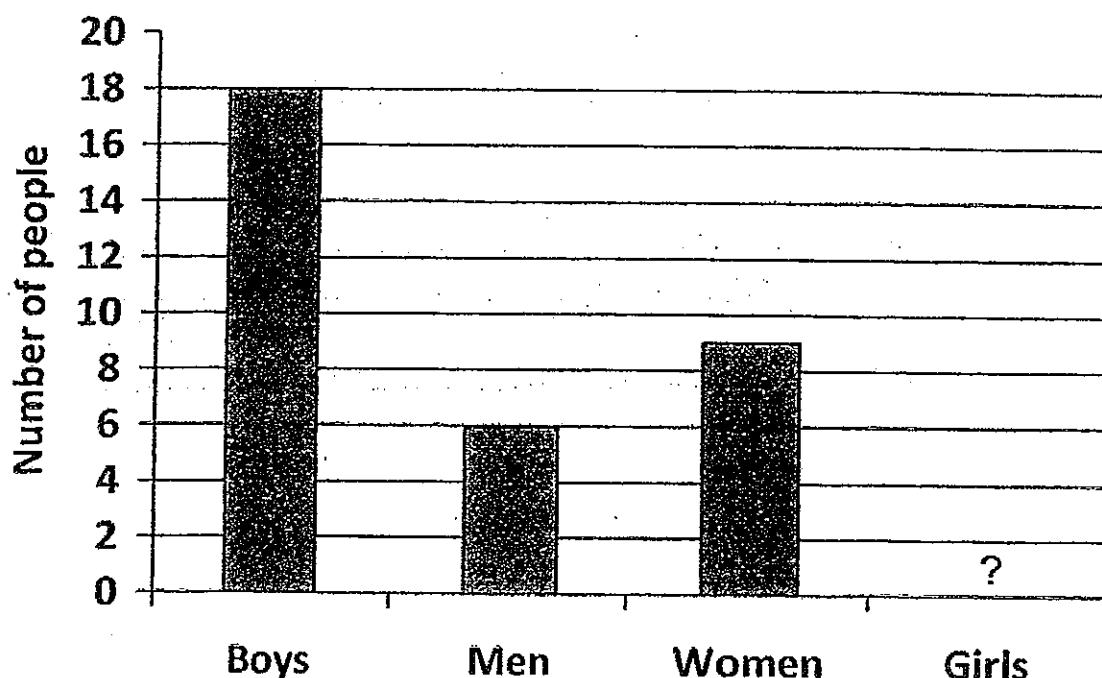
28. David had 1.2 litres of fruit juice.
After drinking 95 ml of it, he poured the remainder into 5 glasses.
Find the volume of fruit juice in each glass.

Ans: _____ ml

29. In the space below, draw a triangle ABC in which $AB = 6 \text{ cm}$ and $\angle ABC = 75^\circ$.
The line BC has been drawn for you.



30. The bar graph below shows the number of people at a park.
Half of the people in the park are male.
How many girls are there in the park?



Ans : _____

End of Paper-
© Please check your work carefully ©

Setters: Mrs Jacqueline Seto
Mr. Ho Kai Huat
Mr. Ronald Lee



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Banded Math Class: P5 _____

Date: 23 October 2012

Duration: 1 h 40 min

Your Score (Out of 60 marks)		
	Banded Math Class	Level
Highest Score		
Average Score		

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. The use of calculator is allowed for this paper.

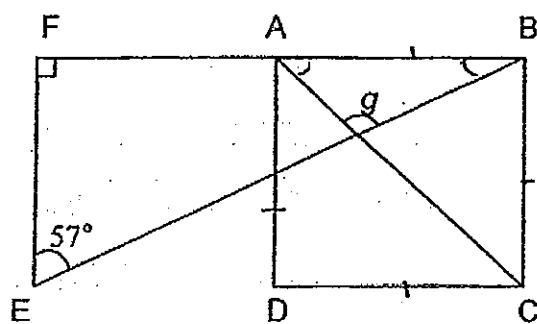
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

Figures are not drawn to scale.

For questions which require units, give your answers in the units stated. (10 marks)

1. In the figure, not drawn to scale, ABCD is a square. FAB is a straight line.

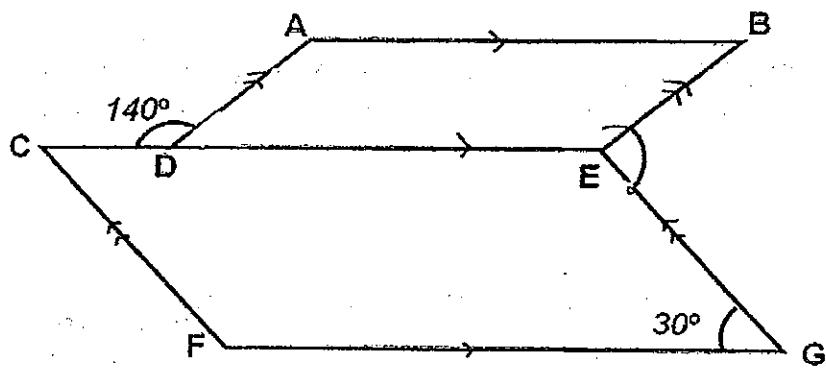
Find $\angle g$.



Ans: _____ ° [2]

2. The figure, not drawn to scale, is made up of 2 parallelograms.

Find $\angle r$.



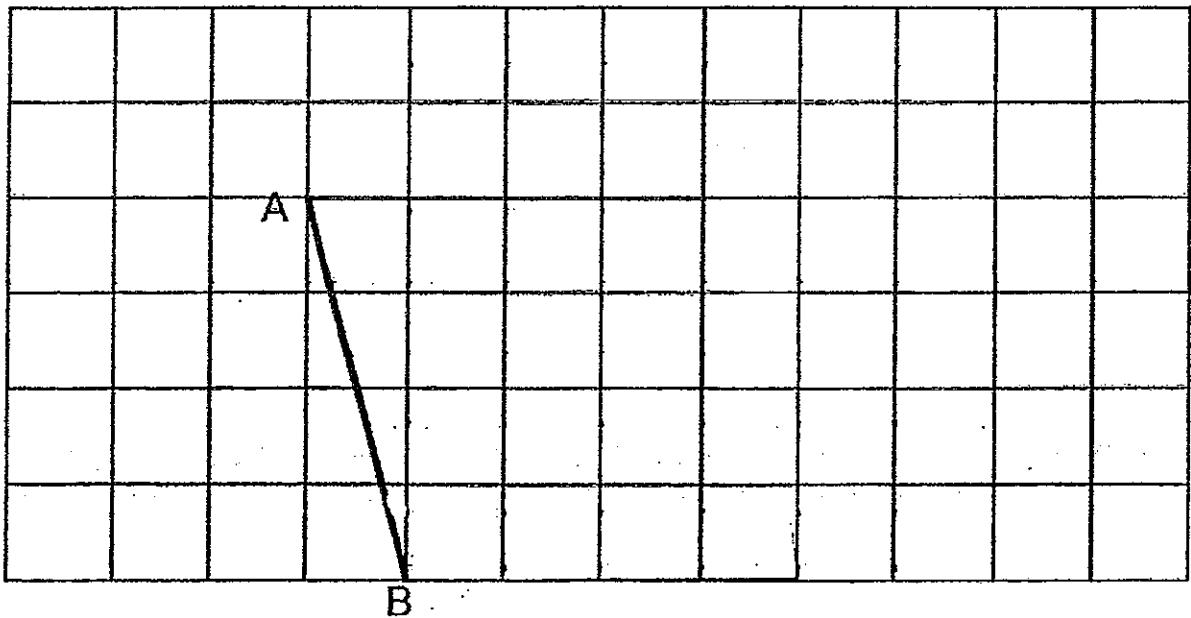
Ans: _____ ° [2]



3. There were 87 more boys than girls at a leadership camp.
After half of the boys left, there were 36 more girls than boys remaining.
What was the total number of children at the camp at first?

Ans: _____ [2]

4. Draw a square ABCD within the grid provided. Side AB has been drawn for you.

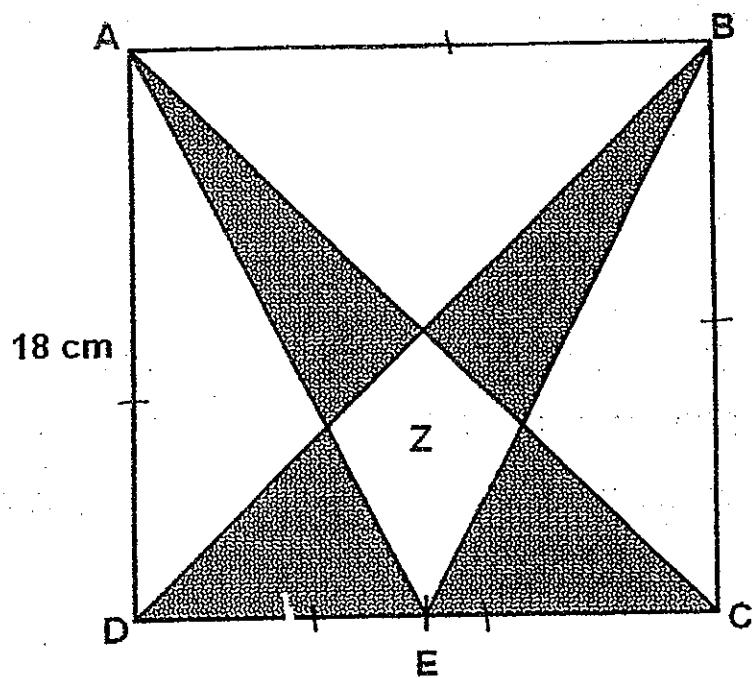


[2]



21

5. ABCD is a square of side 18 cm. $DE = EC$. The area of Z is 27 cm^2 .
Find the total area of the shaded part.



Ans: _____ cm^2 [2]



For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

- * 6. The table below shows the parking rate at a shopping mall in Orchard Road.

For the first hour	\$2.50
For subsequent $\frac{1}{2}$ hour or part thereof	\$1.60

Mr Lim paid \$10.50 for parking at the shopping mall when he exited from the car park at 2.15 p.m..

What was the earliest possible time he entered the car park at the shopping mall? Give your answer in 12-hour clock.

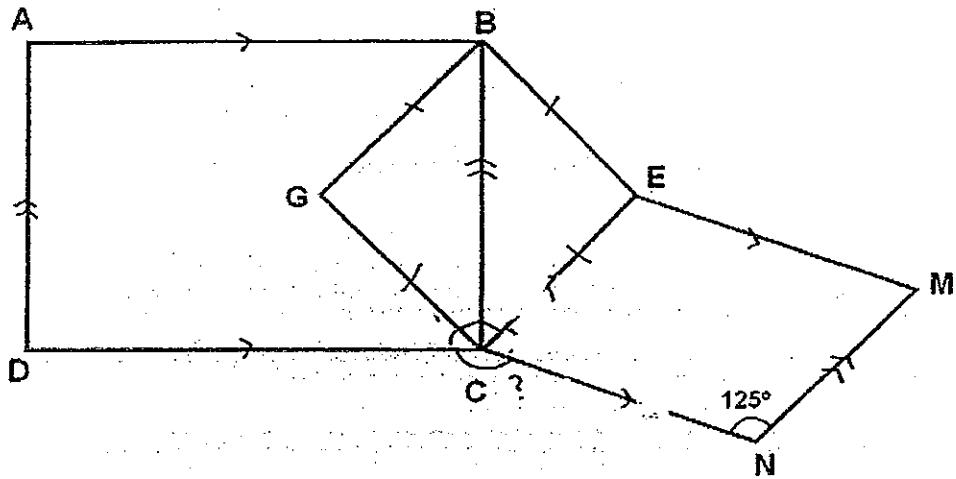
Ans: _____ [3]

23

7. The figure below is not drawn to scale.

ABCD is a rectangle, BECG is a square and EMNC is a parallelogram.

Find $\angle DCN$.



Ans: _____ [3]

8. The average height of Jane, Lily and Mary is 158 cm.

Jane is 7 cm taller than Lily. Jane is also 5 cm taller than Mary.

What is Mary's height?

Ans: _____ [3]



9. Darrel and Jim sold a total 210 carnival tickets.
Patrick and Jim sold a total 285 carnival tickets.
Jim sold 5 times as many carnival tickets as Darrel.

- (a) How many tickets did Patrick sell?
- (b) If each carnival ticket is sold for \$15, how much did the 3 boys collect altogether?

Ans: (a) _____ [2]

(b) _____ [2]

25

10. Kenny had some boxes of brownies for sale.
The price of each box of brownies was \$28.
He sold 80% of his brownies at full price and the rest at a discount of 25%.
He collected \$3192 from the sale of all the brownies.
How many boxes of brownies did he sell altogether?

Ans: _____ [4]



11. The ratio of the number of swimmers to the number of non-swimmers is 6 : 25.

The ratio of the number of male swimmers to the number of female swimmers is 2 : 1.

Given that $\frac{3}{5}$ of the non-swimmers are females and there are 320 male swimmers, how many female non-swimmers are there altogether?

Ans: _____ [3]



12. Kenneth planned to go the Universal Studio with his friends and decided to start saving for the ticket which cost \$54.

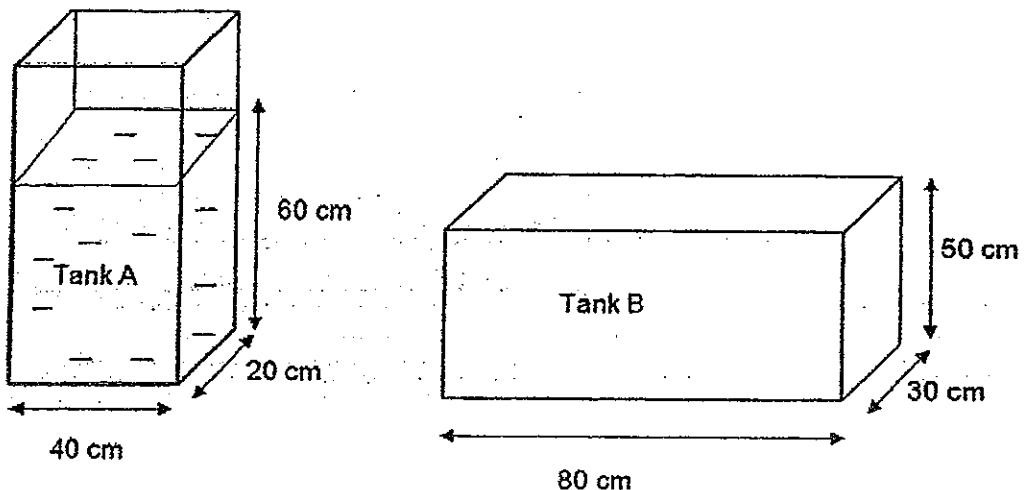
In the first week, he saved \$15. In the second week, he saved \$13.20. Every week, he saved \$1.80 less than the previous week.

How many weeks did it take Kenneth to save \$54?

Ans: _____ [3]



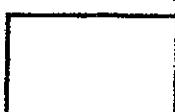
13. Tank A was partially filled with water as shown in the diagram below.
All the water in Tank A was then poured into Tank B which was empty.
- (a) Find the height of the water level in Tank B.
(b) How much more water was needed to fill Tank B completely?



Ans: (a) _____ [3]

(b) _____ [1]

29



14. Sarah is planning for a tea party.

If she buys 5 pies and 12 cupcakes, she will have \$1 left.

If she buys 9 pies and 8 cupcakes, she will need another \$1.80.

Given that a cupcake costs \$3.50, how much money does Sarah have?

Ans: _____ [4]

15. There were 146 pupils who participated in a Math Trial Challenge.

In the end, $\frac{2}{3}$ of the boys and $\frac{3}{4}$ of the girls managed to complete all the stations. 40 pupils could not complete all the stations.

How many boys participated in the Math Trial Challenge?

Ans: _____ [4] 31

16. A snail is climbing up a tree trunk.

For every 5 cm that it climbs, it slips down 1.5 cm.

It takes 3 seconds to climb 1 cm and 2 seconds to slip 1 cm.

What is the distance it can climb in 6 minutes?

Ans: _____

[5]

17. Alice and Belle did not have any stickers at first.

After Calvin gave 80% of his stickers to the two girls, he had 38 more stickers than Alice while Belle had 184 more stickers than him.

(a) How many stickers did Calvin have at first?

(b) Express Belle's stickers as a percentage of the total number of stickers.

Round off your answer to the nearest whole number.

Ans: (a) _____ [3]

(b) _____ [2]

33



18. Mr Young paid a total of \$2219 for a shipment of T-shirts and caps.
The ratio of the number of caps to the number of T-shirt is 3 : 2.
A T-shirt cost \$5.50 more than a cap.
Given that he spent \$259 more on the caps than the T-shirts, find the cost of one cap.

Ans: _____ [5]

-End of Paper-
Please check your work carefully ☺

Setters: Mrs Jacqueline Seto
Mr. Ho Kai Huat
Mr. Ronald Lee



Answer Ke

EXAM PAPER 2012

SCHOOL : Raffles Girls'
SUBJECT : PRIMARY 5 MATHEMATICS
TERM : SA2

01	02	03	04	05	06	07	08	09	010	011	012	013	014	015
3	2	4	3	1	3	4	1	3	2	2	3	3	2	2

16) $7.53, 7.513, 7.35, 7.315$ 17) 0.729 18) $19/100$ 19) $3/8$

20) 44 pears 21) 92% 22) 225° 23) 8kg 24)

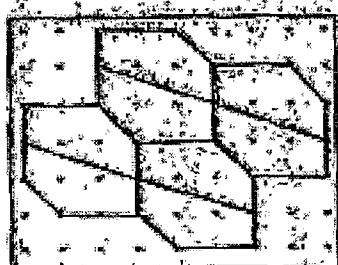
25) $40 - 24 = 16$

$16/40 \times 100 = 4/10 \times 100 = 40/100$

Ans: 40%

26) 1 cube $\rightarrow 1 \times 1 = 1$

$15 \times 1 = 15 \text{ cm}^3$



27) 1.250

30) $18 \div 6 = 3$

$24 \times 2 = 48$

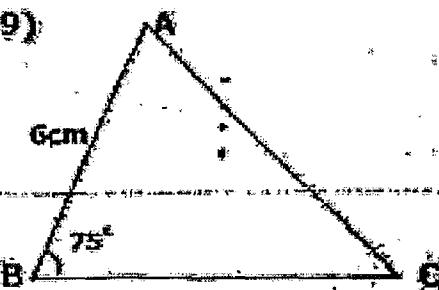
$48 - 24 - 9 = 24 - 9 = 15$

28) $1200 - 95/5$

$= 1105/5$

$= 221 \text{ m}^2$

29)



page 1 to 5

page 1

Paper 2

1) $90^\circ \div 2 = 45^\circ$

$180^\circ - 45^\circ = 90^\circ = 45^\circ$

$180^\circ - 45^\circ - 57^\circ = 78^\circ$

$180^\circ - 78^\circ = 102^\circ$

2) $180^\circ - 140^\circ = 40^\circ$

$180^\circ - 30^\circ = 150^\circ$

$360^\circ - 140^\circ - 150^\circ = 70^\circ$

left left

3)



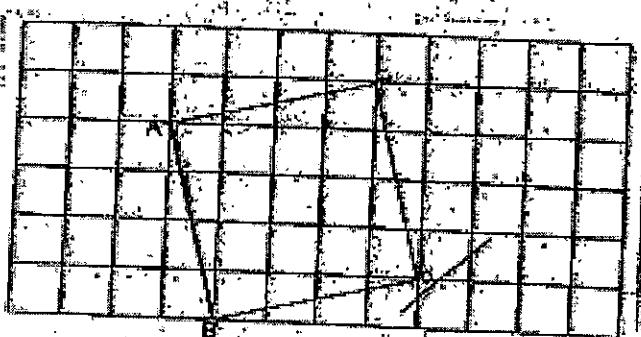
$10 \times 27 + 36 = 123$

Boys $\rightarrow 123 \times 2 = 246$

Girls $\rightarrow 123 + 36 = 159$

Total $\rightarrow 159 + 246 = 405$ children

4)



5) $6 \times 18 \times 18 = 162$

$162 - 27 - 27 = 108 \text{ cm}^2$

6) 10.45 a.m.

$$7) 180^\circ - 125^\circ = 55^\circ$$

$$90^\circ - 45^\circ = 45^\circ$$

$$360^\circ - 90^\circ - 45^\circ - 55^\circ = 170^\circ$$

$$8) \frac{474 - 2 - 7}{3}$$

$$= \frac{465}{3}$$

$$= 155$$

$$155 \div 2 = 157\text{cm}$$

$$9) D + J = 210$$

$$P + J = 285$$

$$D + P \rightarrow 285 - 210 = 75$$

$$210 \div 6 = 35$$

$$\left. \begin{array}{l} D \rightarrow 35 \\ J \rightarrow 175 \\ P \rightarrow 110 \end{array} \right\} 320$$

$$320 \times 15 = 4800$$

a) 110 tickets
b) \$4800

$$10) \quad \begin{array}{ccc} 80\% & & 20\% \\ \$28 & & \$21 \\ \downarrow & & \downarrow \\ 8u \times \$28 = 224 & & 2u \times \$21 = 42 \\ \underbrace{\qquad\qquad\qquad}_{\$3192} & & \end{array}$$

$$\begin{array}{l} \underline{3192} \\ 224+42 \\ = 12 \\ 12 \times 10 = 120 \text{ boxes} \end{array}$$

11)

$$\begin{array}{ccc} & S & \\ & | & \\ M & 6 & F \\ & | & \\ 2 \times 2 & & 1 \times 2 \\ = 4 & & = 2 \end{array}$$
$$\begin{array}{ccc} & NS & \\ & | & \\ 25 & & \\ & | & \\ M & & F \\ 2 \times 5 & & 3 \times 5 \\ = 10 & & = 15 \end{array}$$

$$\begin{aligned} 320 / 4 \times 15 \\ = 80 \times 15 \\ = 1200 \end{aligned}$$

12) 1st 2nd 3rd 4th 5th
\$15 13.20 11.40 9.60 7.80

Total = \$57

Ans: 5 weeks

13)a) $48000 \div 80 \div 30 = 20\text{cm}$
b) $120000 - 48000 = 72000\text{ ml}$

14) 1 cupcake $\rightarrow \$3.50$

$$\begin{aligned} 5P + (12 \times 3.50) + 1 &= 5P + \$43 \\ 9P + (8 \times 3.50) - 1.80 &= 9P + \$26.20 \\ 4 \text{ pies} \rightarrow \$43 - \$26.20 &= \$16.80 \\ 1P \rightarrow \$16.80 \div 4 &= \$4.20 \\ \text{Money} \rightarrow (5 \times 4.20) + (12 \times 3.50) + \$1 &= \$64 \end{aligned}$$

15) G $\rightarrow 26 \times 4 = 104$

B $\rightarrow 146 - 104 = 42$ boys

16) Distance covered per cycle $\rightarrow 5\text{cm} - 1.5\text{cm} = 3.5\text{cm}$

Time taken for cycle $\rightarrow (5 \times 3\text{s}) + (1.5 \times 2\text{s}) = 18\text{s}$

6 mins $\rightarrow 360\text{s}$

18s $\rightarrow 3.5\text{cm}$

360 secs $\rightarrow 360 / 18 \times 3.5 = 70\text{cm}$

$$17) 100\% - 80\% = 20\%$$

$$\begin{aligned} C &\rightarrow 20\% \\ A &\rightarrow 20\% - 38 \\ B &\rightarrow 20\% + 184 \quad 80\% \\ &= 73 = 184 = 257 \end{aligned}$$

$$80\% - 40\% = 40\%$$

$$184 - 38 = 146$$

$$40\% \rightarrow 146$$

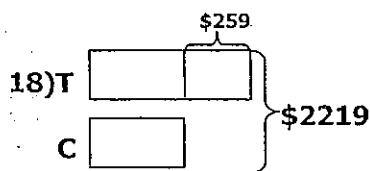
$$10\% \rightarrow 36.5$$

$$100\% \rightarrow 365$$

$$b) \text{Belle} \rightarrow 257/365$$

$$= 70/100$$

$$= 70\%$$



$$\$2219 - \$259 = \$1960$$

$$\$1960 \div 2 = \$980$$

$$C : T$$

$$3 : 2$$

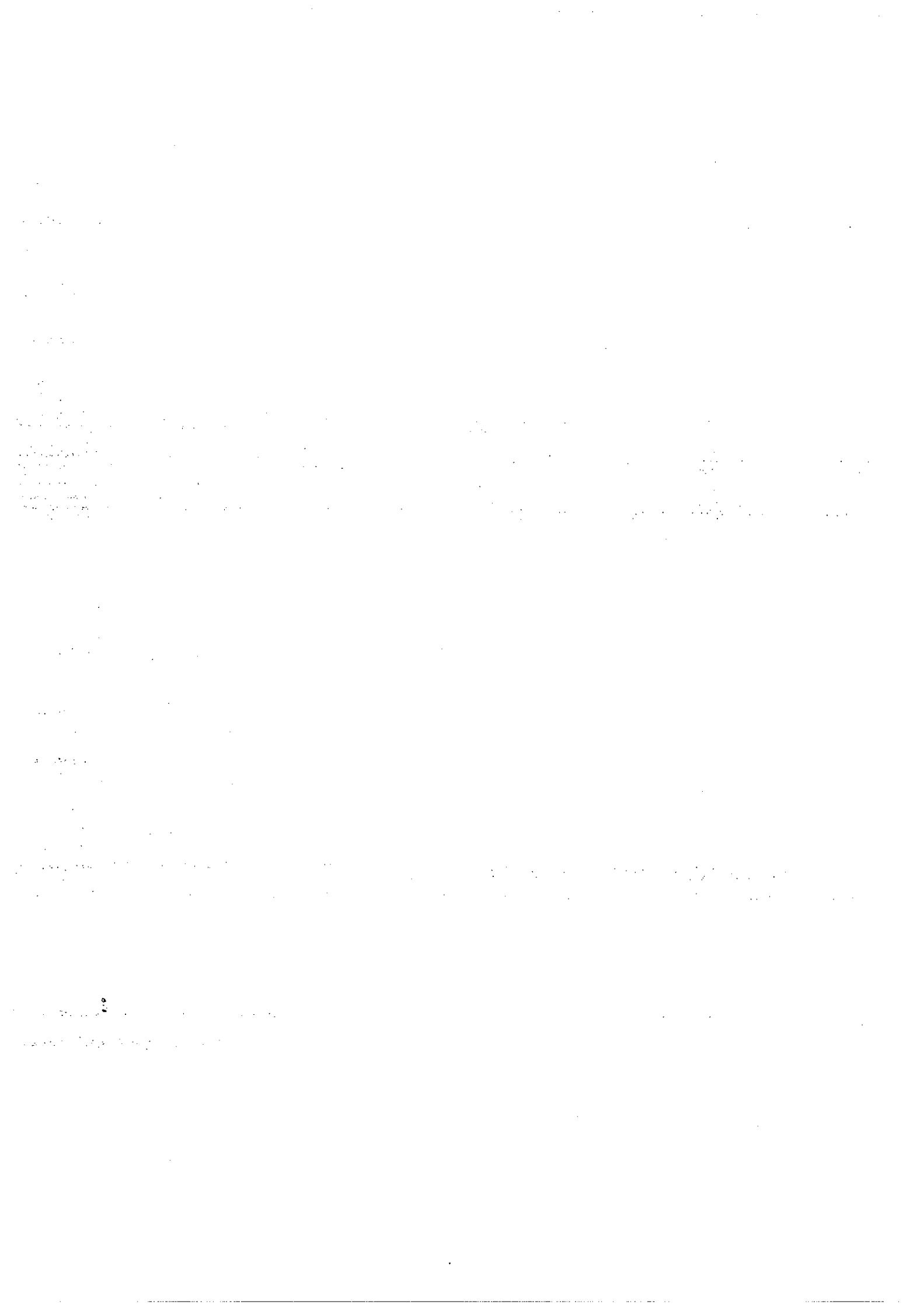
$$(\$1239) : (\$980)$$

$$1 \text{ unit of caps} \rightarrow \$1239 \div 3 = \$413$$

$$1 \text{ unit of T-shirts} \rightarrow \$980 \div 2 = \$490$$

$$\text{Difference of item in 1 unit} = 77 \div 5.50 = 14$$

$$\$413 \div 14 = \$29.50$$





RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1

MATHEMATICS (PAPER 1)

PRIMARY 5

Name: _____ ()

Form Class: P5 _____ Math Teacher: _____

Date: 11 May 2015 Duration: 50 min

Your Score (Out of 100 marks)	
Your Score (Out of 40 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. NO calculator is allowed for this paper.

SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

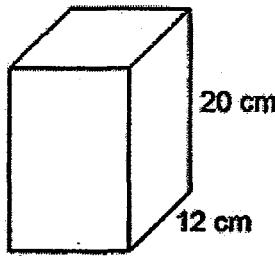
1. In 320 179, the digit 2 is in the _____ place.

- (1) hundreds
- (2) thousands
- (3) ten thousands
- (4) hundred thousands

2. $1977 \times 46 = 1977 \times 12 + \underline{\hspace{2cm}} \times 1977$

- (1) 28
- (2) 34
- (3) 46
- (4) 58

3. What is the volume of the cuboid shown below?



- (1) 140 cm^3
- (2) 240 cm^3
- (3) $1\,400 \text{ cm}^3$
- (4) $2\,400 \text{ cm}^3$

4. What is the missing number in the box below?

$$\frac{\square}{12} = \frac{6}{18}$$

- (1) 8
- (2) 2
- (3) 3
- (4) 4

5. Express $\frac{47}{9}$ as a mixed number.

- (1) $2\frac{5}{9}$
- (2) $4\frac{7}{9}$
- (3) $5\frac{2}{9}$
- (4) $9\frac{2}{5}$

6. Which of the following shapes cannot be tessellated?



7. In 279.534, what does the digit 5 stand for?

- (1) 5 tens
- (2) 5 tenths
- (3) 5 hundreds
- (4) 5 hundredths

8. Express 2.25 as a fraction.

(1) $2\frac{2}{25}$

(2) $2\frac{2}{5}$

(3) $2\frac{1}{4}$

(4) $2\frac{1}{2}$

9. Which of the following ratio is equivalent to 18 : 12?

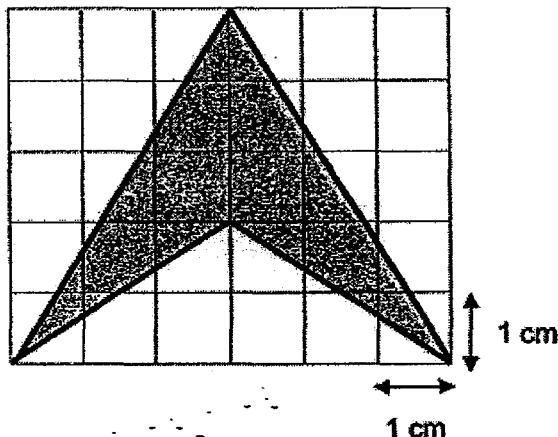
- (1) 2 : 3
- (2) 4 : 6
- (3) 15 : 10
- (4) 21 : 10

10. The mass of a bag of flour when rounded off to the nearest kilogram is 3 kg.

Which of the following could be the actual mass of the bag of flour?

- (1) 2 kg 109 g
- (2) 2 kg 450 g
- (3) 3 kg 200 g
- (4) 3 kg 800 g

11. What is the total shaded area in the figure below?



- (1) 6 cm²
- (2) 9 cm²
- (3) 10 cm²
- (4) 15 cm²

12. Which one of the following has a line of symmetry?

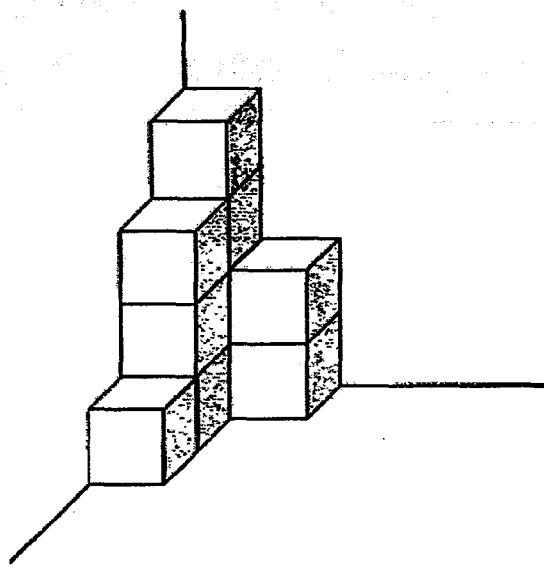
ILL MON TAT WOO

- (1) ILL
- (2) MON
- (3) TAT
- (4) WOO

13. What is the sum of all the common factors of 48 and 60?

- (1) 12
- (2) 16
- (3) 28
- (4) 108

14. The solid below is made up of some identical 1-cm cubes.
What is the volume of the solid?



- (1) 8 cm^3
- (2) 9 cm^3
- (3) 10 cm^3
- (4) 11 cm^3

15. $\frac{3}{7}$ of ♦ is 252. What is the value of ♦ ?

- (1) 36
- (2) 84
- (3) 108
- (4) 588

SECTION B (20 marks)

Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each.

Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. Form the smallest 5-digit odd number with the following digits.

Do not start with 0.

8, 2, 0, 1, 5

Ans: _____

17. In 682.759, the digit in the hundredths place is _____.

Ans: _____

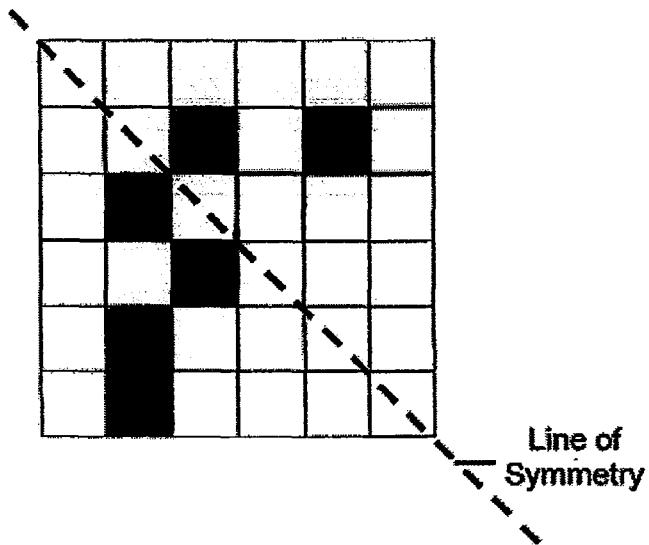
18. The volume of the cube shown below is 216 cm^3 .

What is the length of the cube?

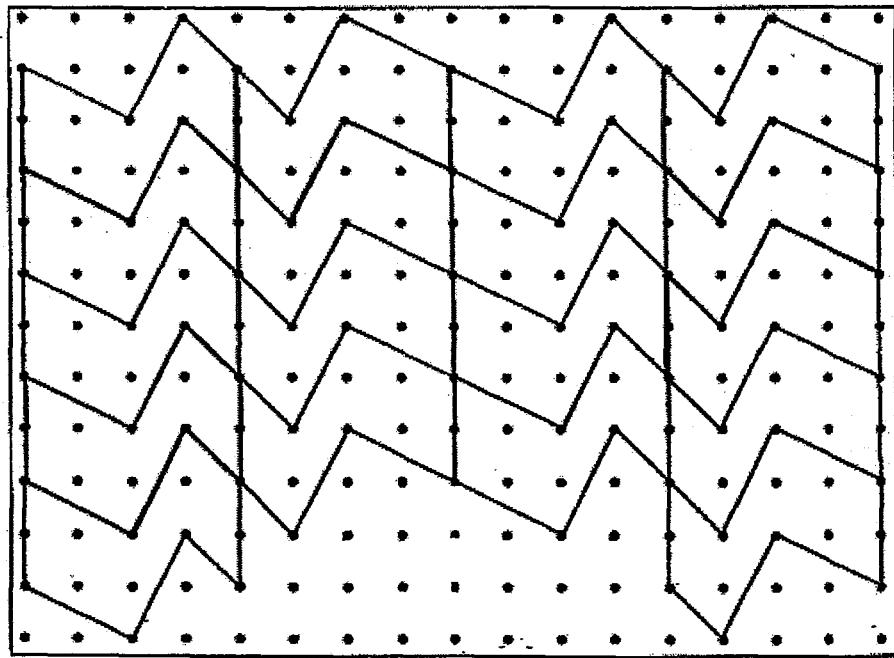


Ans: _____ cm

19. Shade 2 squares to make the figure below symmetrical.



- 20 The pattern in the box below shows a part of a tessellation.
Extend the tessellation by drawing 2 more unit shapes within the box.



21. Mrs Tan had $\frac{1}{5}$ m of string. She used $\frac{1}{7}$ m of the string to make wrap a gift.

What was the length of string left?

Ans: _____

22. Express $5\frac{3}{25}$ as a decimal.

Ans: _____

23. Find the value of $37.248 \div 6$.

Ans: _____

24. Round off 45.299 to the nearest whole number.

Ans: _____

25. Haris counts the marbles in a bag and records the number of marbles in the table below.

Colour of marbles	Number of marbles
Red	2
Green	8

What is the ratio of the total number of marbles to the number of green marbles?

Ans: _____

26. Ahmad had 2 boxes of pens. Each box contained 24 pens.

He shared his pens equally with his 2 brothers.

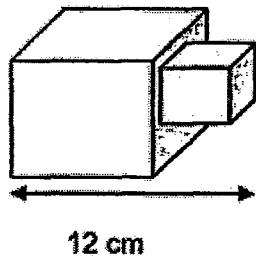
How many pens did each boy receive?

Ans: _____

27. Fill in the blanks with the correct symbols, + , - , X , ÷.
Each symbol can only be used once.

$$12 \underline{\hspace{1cm}} 12 - 122 \underline{\hspace{1cm}} 12 = 10$$

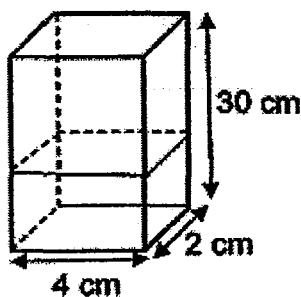
28. The figure below is made up of 1 big cube and 1 small cube. The ratio of the length of the big cube to the length of the small cube is 2 : 1.
Calculate the volume of the figure.



Ans: _____ cm^3

29. Container A below contains water up to $\frac{2}{5}$ of its height. Its height is 30 cm.

Find the volume of water in container A.



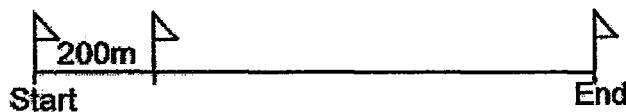
Container A

Ans: _____ cm^3

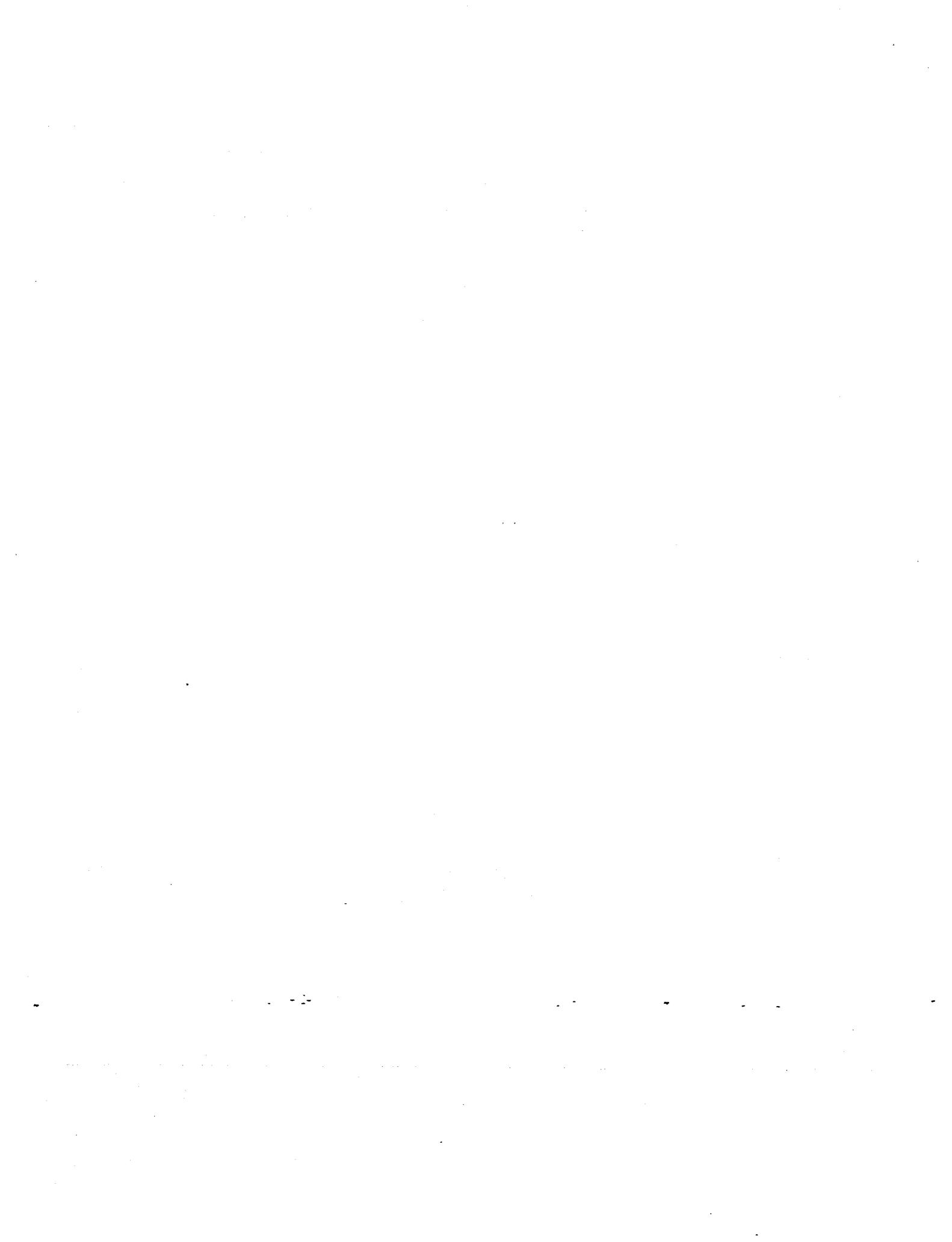
30. A flag is placed at the start of a 5-km charity run.

Thereafter, a flag is placed at every 200 m along the run.

How many flags are used altogether?



Ans: _____





**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Math Teacher: _____

Date: 11 May 2014 Duration: 1 h 40 min

Your Score (Out of 60 marks)	
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INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

Figures are not drawn to scale.

For questions which require units, give your answers in the units stated. (10 marks)

1. Fatimah had 198 white marbles and 112 black marbles.

She gave away $\frac{1}{3}$ of the white marbles and $\frac{1}{7}$ of the black marbles.

How many marbles were given away?

Ans: _____ [2]

2. A machine is able to manufacture 3 toys in 21 minutes.

How long will it take for the machine to manufacture 15 toys?

Ans: _____ min [2]

3. Arrange the fractions below from the largest to the smallest.

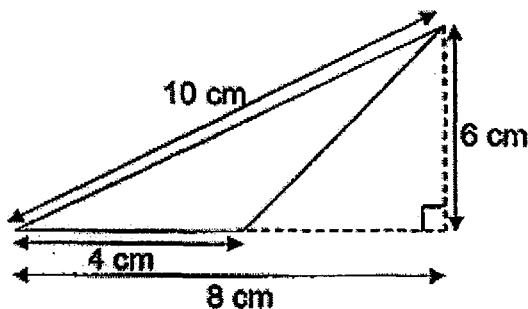
$$\frac{2}{9}, \quad \frac{3}{5}, \quad \frac{7}{9}, \quad \frac{8}{5}$$

Ans: _____ [2]

4. John has two identical jugs, X and Y, filled with some orange juice. The ratio of the amount of orange juice in Jug X and Y is 5: 7. The amount of orange juice in Jug Y is 434 ml. Without pouring orange juice from Jug Y, how much orange juice must John pour into Jug X so that Jug X and Y have an equal amount of orange juice?

Ans: _____ ml [2]

5. Find the area of the triangle shown below.



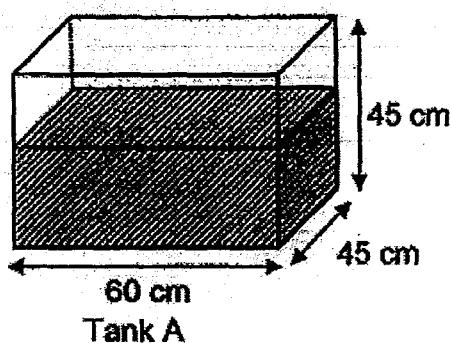
Ans: _____ cm^2 [2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. Mrs Tan had some muffins and cookies in the ratio of 1 : 3.
After she baked 100 more muffins, the ratio of the number of muffins to the number of cookies became 3 : 5.
What was the total number of muffins and cookies that Mrs Tan had at first?

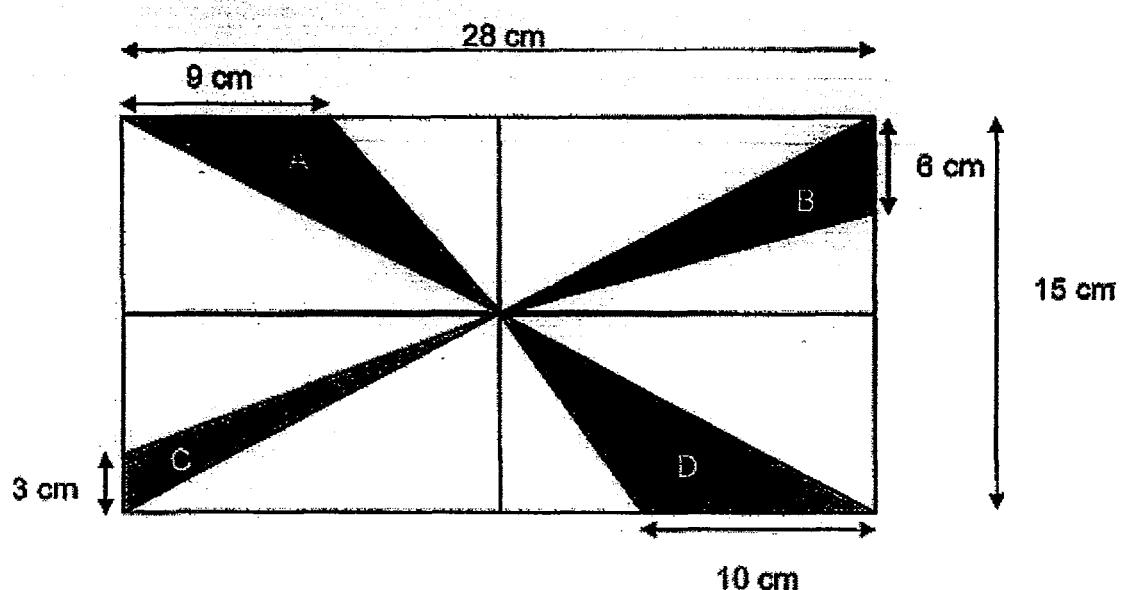
Ans: _____ [3]

7. Tank A is $\frac{2}{3}$ filled with water. How many 15-cm cubes must be added to Tank A to fill it to its brim?



Ans: _____ [3]

8. The figure below is made of 4 identical rectangles.
The length of the figure is 28 cm and its breadth is 15 cm.
Find the total area of the shaded parts.



Ans: _____ [3]

9. Janice could buy 65 identical books with all her money. If the price of each book was increased by \$7, she would have to buy 35 fewer books.

How much money did Janice have?

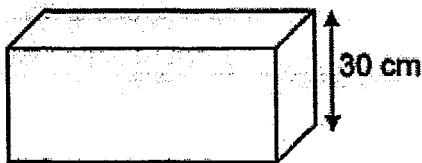
Ans: _____ [4]

10. The cost of 17 erasers and 9 pens is \$10.85.
The cost of 4 erasers and 8 pens is \$5.20.
- (a) What is the cost of 36 erasers and 72 pens?
(b) How many erasers can be bought with \$40?

Ans: (a) _____ [2]

(b) _____ [2]

11. X is a rectangular tank with a base area of 200 cm^2 .
The height of the tank is 30 cm.



Tank X

Water is poured into the tank until it fills up $\frac{3}{5}$ of the tank.

- (a) How much water is in the tank now?
(b) Then, all the water from the tank is poured into cups of 300 ml without spilling.

How many cups are filled to the brim?

Ans: (a) _____ [2]

(b) _____ [2]

12. I am thinking of a fraction.

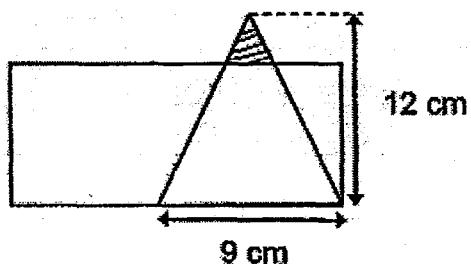
The difference between the numerator and the denominator is 23.

When 5 is added to the denominator, the fraction becomes $\frac{1}{5}$.

What is the fraction?

Ans: _____ [3]

13. The figure below is made of a triangle and a rectangle.



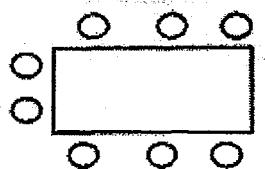
$\frac{1}{6}$ of the triangle is shaded. The shaded area of the triangle is $\frac{1}{12}$ of the area of the rectangle.

Find the area of the rectangle.

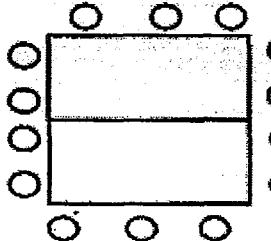
Ans: _____ [3]

14. Tables and chairs at a dinner party can be arranged in the patterns below.

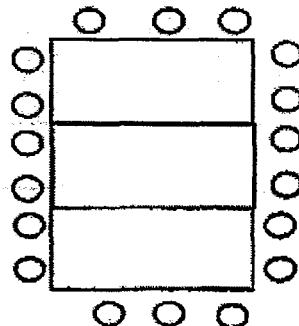
Pattern 1



Pattern 2



Pattern 3



Legend

○ - chair

□ - table

- How many chairs will there be in Pattern 4?
- Which pattern will have 102 chairs?

Ans : (a) _____ [2]

(b) _____ [2]

15. Mrs Bong bought some apples and oranges. The cost of an orange was $\frac{2}{3}$ the cost of an apple. She paid \$9.60 for 8 apples and 12 oranges.
How much did an apple cost?

Ans : _____ [4]

16. Two siblings, Tom and Jerry, had a total of 590 game cards at first.

After Jerry bought 35 games cards and gave Tom 20 game cards, Jerry had 4 times as many game cards as Tom.

How many game cards did Jerry have at first?

Ans : _____ [5]

- 17 Anna collected sea shells and kept them in 3 boxes, A, B and C.
- Box A contained $\frac{1}{4}$ as many sea shells as the total number of sea shells in boxes B and C.
- Box B contained $\frac{2}{5}$ as many sea shells as the total number of sea shells in boxes A and C.
- (a) Find the ratio of the number of seashells in box A to the number of seashells in box C.
- (b) There are 96 more seashells in box C than box B.

How many seashells did Anna collect altogether?

Ans : a) _____ [2]

b) _____ [3]

18. This year, Ming Ming's age is $\frac{4}{5}$ of her brother's. Her brother will be 41 years old in 6 years' time.

How old was Ming Ming when she was 1 year younger than $\frac{3}{4}$ of her brother's age?

Ans : _____ [5]

End of Paper

Setters: Ms Tan Lizhen, Ms Melissa Yeo, Mdm Wirda Sukor

EXAM PAPER 2015**LEVEL : PRIMARY 5****SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL****SUBJECT : MATHEMATICS****TERM : SA**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	4	4	3	4	2	3	3	3
Q11	Q12	Q13	Q14	Q15					
2	3	3	3	4					

Q1. $82 \rightarrow 198 \div 3 = 66, 112 \div 7 = 16, 66 + 16 = 82$

Q2. $105\text{min} \rightarrow 15 \div 3 = 5, 21 \times 5 = 100$ Q3. $\frac{8}{5}, \frac{7}{9}, \frac{3}{5}, \frac{2}{9}$

Q4. $124\text{ml} \rightarrow 434 \div 7 = 62 \text{ (1 unit)}, 62 \times 2 = 124$ Q5. $12\text{cm}^2 \frac{1}{2} \times 4 \times 6 = 12$

Q6. 500 muffins & cookies $\rightarrow 9 - 5 = 4, 100 \div 4 = 25, 5 + 15 = 20, 20 \times 25 = 500$

Q7. $12 \rightarrow 15 \times 15 \times 15 = 3375, 45 \div 3 = 15, 45 \times 60 \times 15 = 40500, 40500 \div 3375 = 12$

Q8. $134.25\text{cm}^2 \rightarrow \frac{1}{2} \times 18 \times 7.5 = 67.5, \frac{1}{2} \times 19 \times 7.5 = 71.25, \frac{1}{2} \times 9 \times 14 = 63, \frac{1}{2} \times 12 \times 14 = 84, 84 + 63 + 71.25 + 67.5 = 285.75, 28 \times 15 = 420, 420 - 285.75 = 134.25$

Q9. $\$390 \rightarrow 65 - 35 = 30, \$7 \times 30 = \$210, \$210 \div 35 = 6, \$6 \times 65 = \390

Q10a. $\$46.80 \rightarrow 4 \div 36 = 9, \$5.20 \times 9 = \$46.80$

Q10b. 100 erasers $\rightarrow 17e + 9 \text{ pens} = \$10.85, 4e + 8 \text{ pens} = \$5.20, 36e + 72 \text{ pens} \rightarrow \$46.80, 136e + 72 \text{ pens} \rightarrow \$86.80, 100e = \$40$

Q11a. $3600\text{cm}^3 \rightarrow 30 \div 5 = 6, 6 \times 3 = 18, 18 \times 200 = 3600$ Q11b. $12 \text{ cups } 3600 \div 300 = 12$

Q12. $\frac{7}{30} \rightarrow 23 + 5 = 28 \text{ (4u)} 28 \div 4 = 7, 7 + 23 = 30 \rightarrow \frac{7}{30}$

Q13. $108\text{cm}^2 \rightarrow \frac{1}{2} \times 9 \times 12 = 54, 54 \div 6 = 9, 9 \times 12 = 108$

Q14a. 22 chairs $\rightarrow 18 + 4 = 22$ Q14b. pattern 24 102 - 6 - 96, $96 \div 4 = 24$

Q15. $\$0.60 \rightarrow 8 \times 3 = 24, 12 \times 2 = 24, 48u \$9.60, 1u \$0.20, 3 \times 20\text{¢} = 60\text{¢}$

Q16. 485 game cards $\rightarrow 590 \div 35 = 625, 625 \div 5 = 125, 4 \times 125 = 500, 500 + 20 - 35 = 485$

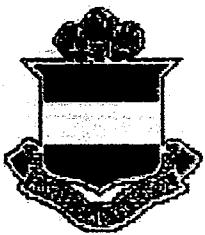
Q17a. 7:18

Q17b. 8u $\rightarrow 96, 1u \rightarrow 12, 7 + 28 = 35 \text{ (altogether)}, 35 \times 12 = 420$

Q18. 17 years old $\rightarrow 41 - 6 = 35, 35 \div 5 = 7, 7 - 1 = 6, 3 \times 6 = 18, 18 - 1 = 17$

THE END





**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form Class: P5 _____

Banded Math Class: P5 _____

Date: 8th May 2014

Duration: 50 min

Your Paper 1 Score (Out of 40 marks)	
Your Paper 2 Score (Out of 60 marks)	
Your Total Score (Out of 100 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. **NO** calculator is allowed for this paper.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

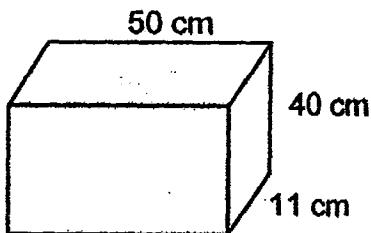
1. In 120.458, which digit is in the hundredths place?

- (1) 1
- (2) 5
- (3) 8
- (4) 4

2. Express 0.55 as a fraction in its simplest form.

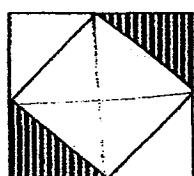
- (1) $\frac{1}{2}$
- (2) $\frac{11}{20}$
- (3) $\frac{11}{200}$
- (4) $\frac{55}{100}$

3. Find the volume of the cuboid below.



- (1) 2.000 cm^3
- (2) $2\,200 \text{ cm}^3$
- (3) $20\,000 \text{ cm}^3$
- (4) $22\,000 \text{ cm}^3$

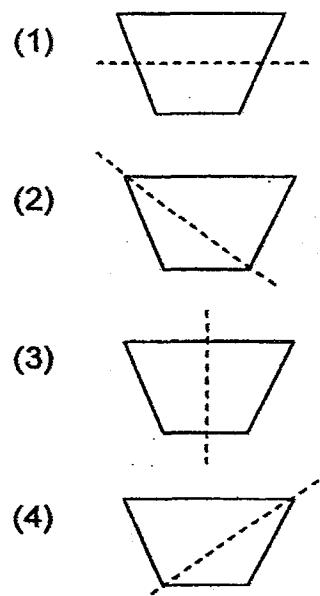
4. The figure below is made up of 2 squares.



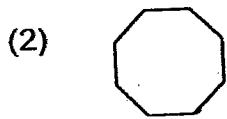
What fraction of the figure is shaded?

- (1) $\frac{2}{3}$
- (2) $\frac{1}{2}$
- (3) $\frac{1}{3}$
- (4) $\frac{1}{4}$

5. Which one of the figures below has a line of symmetry?



6. Which one of the shapes below can be tessellated?



7. The product of 500 and 800 is _____

- (1) 4 000
- (2) 40 000
- (3) 400 000
- (4) 4 000 000

8. 10kg of sugar is packed equally into 6 similar packets.
What is the mass of each packet?

(1) $1\frac{1}{2}$ kg

(2) $1\frac{2}{3}$ kg

(3) $1\frac{3}{4}$ kg

(4) $1\frac{4}{5}$ kg

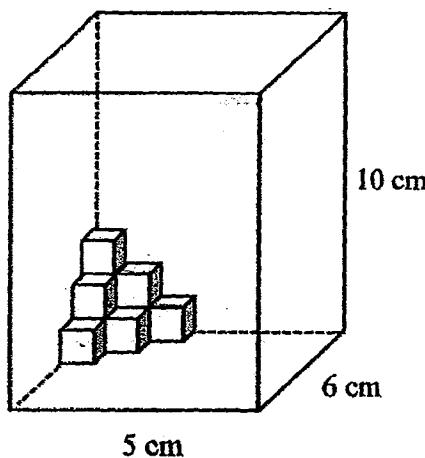
9. The ratio of the number of apples to the number of oranges in a basket was 3 : 4. There were 8 more oranges than apples.
How many fruits were there in the basket?
- (1) 14
(2) 24
(3) 32
(4) 56
10. Which of the following when rounded off to the nearest thousands does not give 69 000?
- (1) 69 499
(2) 68 900
(3) 68 500
(4) 68 499
11. There were 18 red marbles and 14 blue marbles in a box.
 $\frac{3}{4}$ of the marbles were sold. How many marbles were left?
- (1) 8
(2) 24
(3) 32
(4) 4
12. 600 thousands + 70 hundreds + 50 tens + 3 ones is the same as _____.
- (1) 600 753
(2) 607 503
(3) 670 053
(4) 675 003

13. Rayhana bought some beads. At first she packed them into bags of 6 and there were 3 beads left over. She then packed them into bags of 8 and there were also 3 beads left over. What was the smallest number of beads that she could have bought?

- (1) 21
- (2) 24
- (3) 27
- (4) 30

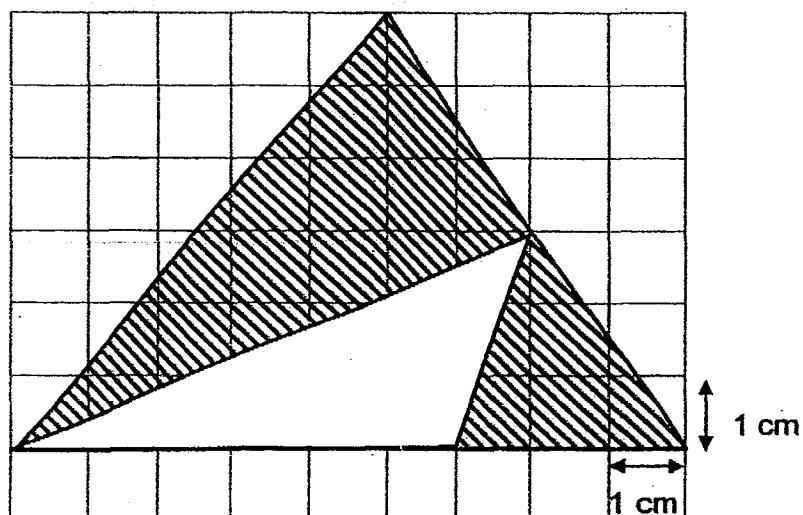
14. The glass tank below contains some 1-cm cubes.

What is the maximum number of cubes that can still be added into the tank?



- (1) 290
- (2) 291
- (3) 294
- (4) 300

15. Calculate the total shaded area in the figure below.



- (1) 10.5 cm^2
- (2) 13.5 cm^2
- (3) 16.5 cm^2
- (4) 18.0 cm^2

Questions 16 to 25 carry 1 mark each.

Write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following numbers in descending order.

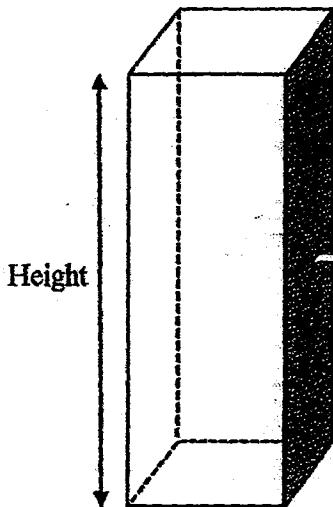
7 894 600 , 7 896 400 , 798 640 , 7 984 600

Ans: _____

17. $0.452 =$ _____ thousandths.

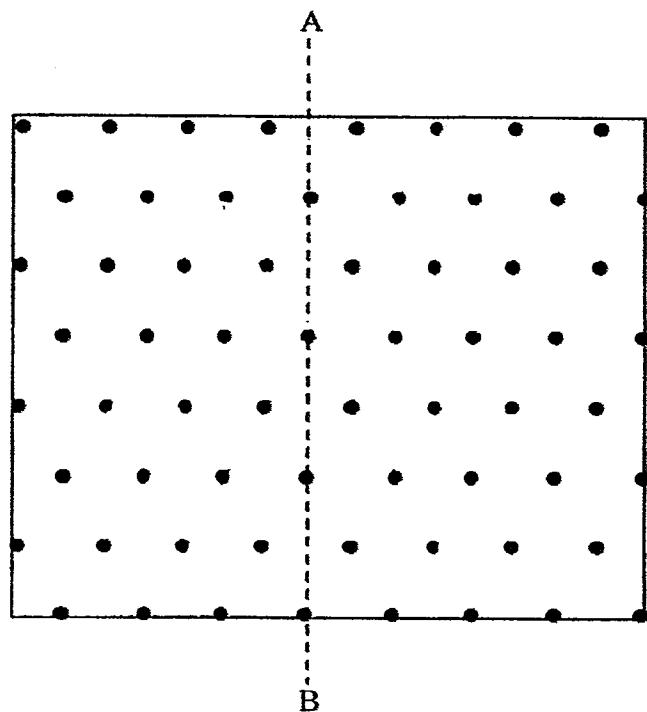
Ans: _____

18. The cuboid below has a square base area of 16 m^2 .
The area of the shaded face is 48 m^2 .
Find the height of the cuboid.

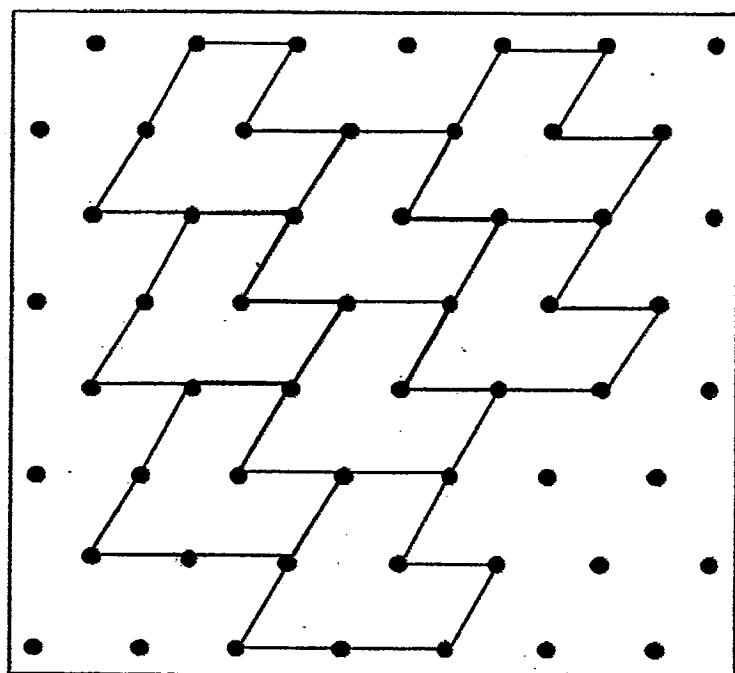


Ans: _____ m

19. Use a ruler to complete the figure below so that the dotted line AB is the line of symmetry.



20. The pattern in the box below shows a part of a tessellation.
Extend the tessellation by drawing 1 more unit shape within the box.



21. Find the value of $1\frac{2}{3} - \frac{5}{6}$

Ans: _____

22. Express $6\frac{7}{20}$ as a decimal.

Ans: _____

23. What is the value of 1.125×3 ?

Ans: _____

24. Calculate $32 \div 100 = 0.01$
Round off your answer to 1 decimal place.

Ans: _____

25. Sherry has \$1 in 20-cent coins and \$5 in 50-cent coins.
Find the ratio of the number of 20-cent coins to the number of 50-cent coins.

Ans: _____

Questions 26 to 30 carry 2 marks each.

Show your working clearly in the space provided for each question and write your answers in the space provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form.

26. Miss Luo wanted to place 48 potted plants around a square garden.
After putting 1 potted plant in each corner, she placed the rest of the potted plants equally along the 4 sides.
Find the number of potted plants on each side.

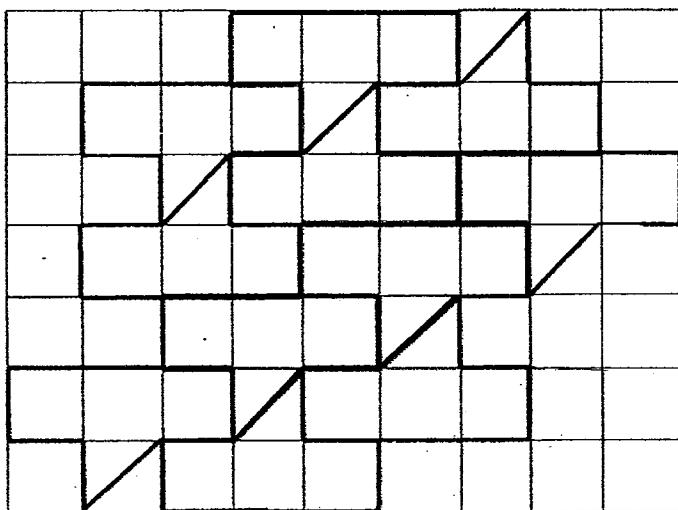
Ans: _____

27. $(150 + 50) - 40 + 60 \div 2 \times 5 =$ _____

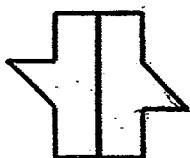
Ans: _____

28. The shape  can be tessellated.

- (a) The pattern in the box below shows part of a tessellation.
Extend the tessellation by drawing one more unit shape in the space provided within the box. [1]



- (b) 2 such shapes are joined to form a new shape shown below.



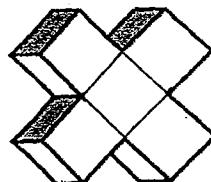
Can this new shape tessellate? Yes or No?

Ans : _____ *1]

29. Jane wanted to fill an empty water tank measuring 70 cm long, 30 cm wide and 20 cm high with water using a bucket.
Given that the capacity of the bucket was 7 litres, how many buckets of water were needed to fill the tank completely?

Ans: _____

30. The solid below is made up of identical cubes. The total surface area of the solid is 2200 cm^2 . Find the volume of the solid.



Ans: _____ cm^3

End of Paper
☺ Please check your work carefully ☺

Setters : Mr Ho Kai Huat
Mr Ronald Lee
Mrs Jacqueline Seto



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Banded Math Class: P5 _____

Date: 8th May 2014

Duration: 1 h 40 min

Your Paper 2 Score (Out of 60 marks)	
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INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

Figures are not drawn to scale.

For questions which require units, give your answers in the units stated. (10 marks)

1. 45 pupils took part in a quiz. $\frac{1}{3}$ of the pupils were boys.

How many girls took part in the quiz?

Ans: _____ [2]

2. Write down all the common factors of 16 and 24.

Ans: _____ [2]

3. Arrange the ~~fractions~~
numbers below in ascending order.

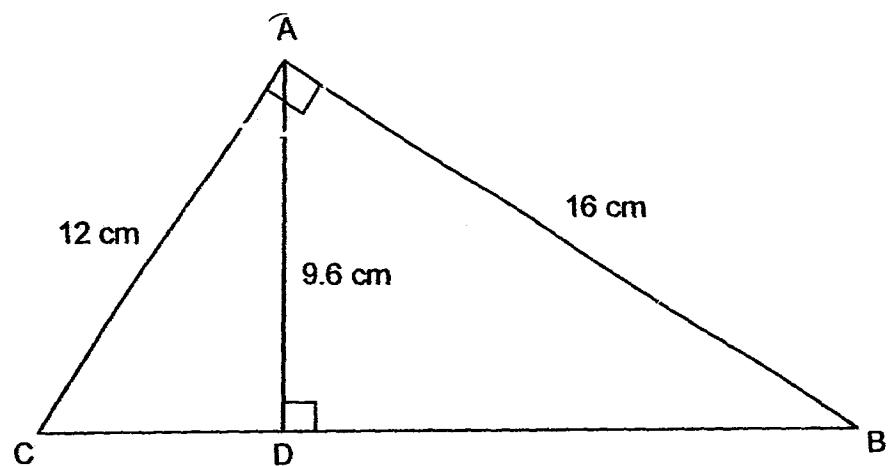
$$3\frac{3}{4}, \quad 3\frac{7}{11}, \quad 3.157$$

Ans: _____ [2]

4. The ratio of Andy's age to his father's age is 2 : 5.
Their total age now is 84 years old. How old will Andy be in 10 years' time?

Ans: _____ years old [2]

5. Calculate the area of the triangle ABC.



Ans: _____ cm^2 [2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

Figures are not drawn to scale.

The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. Kimberly planned to finish reading a book in 16 days by reading 35 pages a day.

In the end, she took 4 days longer to finish reading the book.

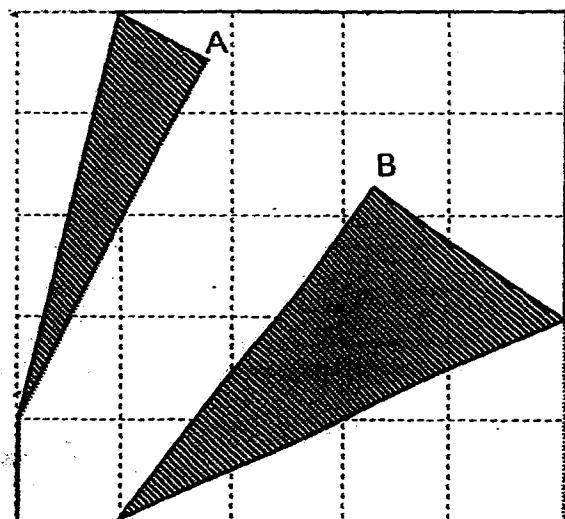
How many pages did she read per day?

Ans : _____ [3]

7. A box contained some blue and red marbles in the ratio $3 : 8$. When 144 blue marbles were added in, the ratio became $3 : 4$. Find the number of marbles in the box at first.

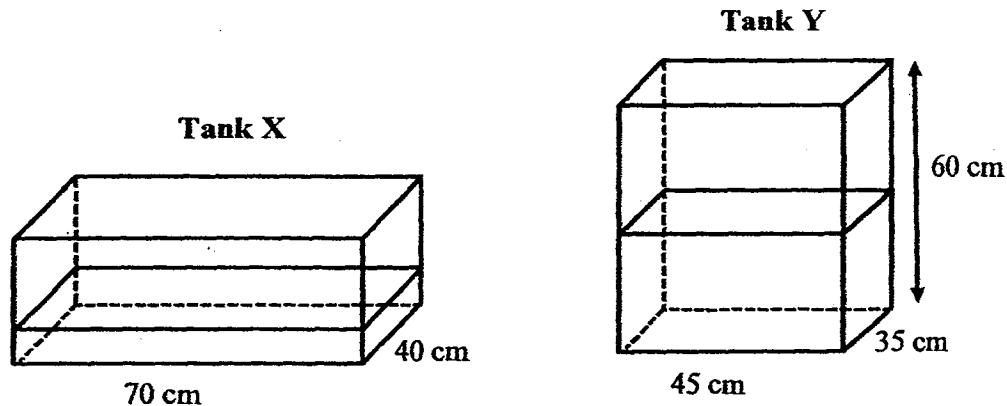
Ans: _____ [3]

8. The figure below shows a square piece of paper of length 15 cm, folded at opposite corners A and B. What is the total area of the shaded parts of the figure?



Ans: _____ [3]

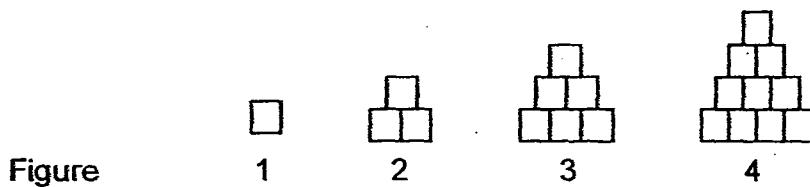
9. At first, Tank X was $\frac{1}{4}$ filled with water while Tank Y was $\frac{1}{2}$ filled with water. Then all the water from Tank X was poured into Tank Y and Tank Y became $\frac{5}{6}$ full. What was the height of Tank X?



Ans: _____ [4]

10. Chloe used unit square of side 4cm to build some figures.

The first four figures are shown below.



The table below shows the number of squares used for each figure and the height of each figure.

Figure	Number of squares used	Perimeter of the figure (cm)
1	1	4
2	3	8
3	6	12
4	10	16
5	[1]	[1]

(a) Complete the table for Figure 5.

(b) How many squares are needed to build Figure 90?

Ans : (b) _____ [2]

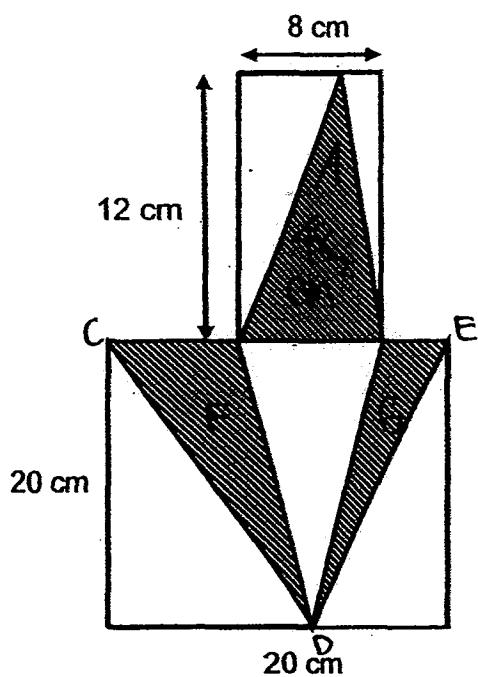
11. A tank with a square base of side 35 cm contained 12.6 litres of water at first. After another 7 litres of water was added, the tank was $\frac{2}{3}$ filled. Find the height of the tank.

Ans: _____ [3]

12. Andy had 650 stickers. Bernice had $\frac{3}{5}$ as many stickers as Andy. Cindy had 150 more stickers than Bernice. How many stickers did they have altogether?

Ans: _____ [3]

13. The figure below is made up of a rectangle and a square.
Find the area of the shaded parts.



Ans: _____ [4]

14. Mrs Chan went shopping with some money.
In shop A, she spent half of her money plus \$1 on clothing.
In shop B, she spent half of the remaining money plus \$2 on a pair of shoes.
In shop C, she spent $\frac{1}{3}$ of the remaining plus \$3 on a bag and had \$49 left
How much money had Mrs Chan at first?

Ans: _____ [5]

15. In a factory, Machine A produced a box every 3 minutes and Machine B produced a box every 4 minutes.
- (a) If both machines started at the same time, how long did it take Machine A to produce 20 more boxes than Machine B?
- (b) How many boxes were produced by both machines altogether in that time?

Ans: (a) _____ [2]

(b) _____ [2]

16. Alan, Ben and Carl each had some marbles. Ben had 1168 fewer marbles than Alan. After Alan and Ben each gave 355 marbles to Carl, Alan had 5 times as many marbles as Ben.
- (a) How many marbles did Alan have at first?
- (b) If Carl had 500 more marbles than Ben in the end, how many marbles did Carl have at first?

Ans : (a) _____ [3]

(b) _____ [2]

17. Joyce had some apples. She used $\frac{1}{5}$ of the apples to make apple pie and $\frac{1}{3}$ of the remaining apples for apple juice. She then bought another 242 apples and found that she had twice as many apples as she had at first.
How many apples did she have at first?

Ans: _____ [4]

18. Lily had $\frac{2}{3}$ as much money as Andrew. After each of them spent \$250, the amount of money Lily had left became $\frac{3}{10}$ of the total amount of money both of them had left.
- (a) How much did Andrew have at first?
- (b) How much money must Andrew give to Lily so that they have the same amount of money in the end?

Ans: (a) _____ [3]

(b) _____ [2]

**End of Paper
Please check your work carefully ☺**

Setters: Mr. Ho Kai Huat
Mr. Ronald Lee
Mrs Jacqueline Seto

EXAM PAPER 2014

LEVEL : PRIMARY 5
SCHOOL : RAFFLES
SUBJECT : MATHS
TERM : SA1

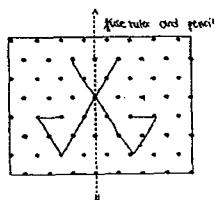
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	2	4	4	3	1	3	2	4	4	1	2	3	1	4

Q16 7984 600, 7896 400, 7894 600, 798 640

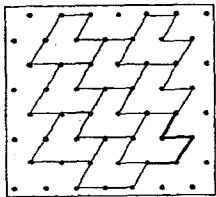
Q17 452

Q18 12m

Q19



Q20



Q21 $\frac{5}{6}$

Q22 6.35

Q23 3.375

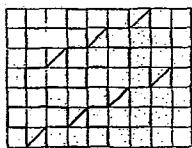
Q24 0.3

Q25 1:2

Q26 13

Q27 310

Q28(a)



(b) No

Q29 6

Q30 5000 cm³

Paper 2

Q1 $\frac{2}{3} \times 45 = 30$

30 girls took part in the quiz.

Q2 Factors of 16: 1, 2, 4, 8, 16

Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24

The common factors are 1, 2, 4, 8

Q3 $3.157, 3\frac{7}{11}, 3\frac{3}{4}$

Q4
$$\begin{array}{rcl} A & : & F \\ 2 & : & 5 \end{array}$$

2 units + 5 units = 7 units

7 units \rightarrow 84

2 units \rightarrow 24

24 + 10 = 34

Andy will be 34 years old.

Q5 $\frac{1}{2} \times 12 \times 16 = 96$

The area is 96 cm².

Q6 $16 \times 350 = 560$ (total pages)

$16 + 4 = 20$

$560 \div 20 = 28$

She read 28 pages per day.

Q7 6 units - 3 units = 3 units

3 units \rightarrow 144

1 unit \rightarrow 48

$48 \times 3 + 48 \times 5 = 528$

There are 528 marbles.

Q8 $15 \div 5 = 3$

$3 \times 4 = 12$

$\frac{1}{2} \times 3 \times 12 = 18$

$3 \times 2 = 6$

$\frac{1}{2} \times 6 \times 12 = 36$

$18 + 36 = 54$

The total area is 54cm².

Q9 New height of water in tank Y $\rightarrow \frac{5}{6} \times 60 = 50$
 Old height of water in tank Y $\rightarrow \frac{1}{2} \times 60 = 30$

Difference in height due to water from X $\rightarrow 50 - 30 = 20$
 Volume of water in X $\rightarrow 45 \times 35 \times 20 = 31500$
 Height of water in tank X $\rightarrow 31500 \div (70 \times 40) = 11.25$
 Height of tank X $\rightarrow 11.25 \times 4 = 45$

The height is 45cm.

Q10 (a)

No of squares \rightarrow Fig 1 $\frac{2}{1+2}$ $\frac{3}{1+2+3}$ $\frac{4}{1+2+3+4}$ $\frac{5}{1+2+3+4+5}$ $\frac{6}{1+2+3+4+5+6}$ $\frac{7}{1+2+3+4+5+6+7}$ $\frac{8}{1+2+3+4+5+6+7+8}$

Peri \rightarrow $\frac{1}{4}$ $\frac{2}{4 \times 2}$ $\frac{3}{4 \times 3}$ $\frac{4}{4 \times 4}$ $\frac{5}{4 \times 5}$
 $4 \times 5 = 20$

(b) $1+2+3+4+5+6+\dots+90$
 $(90 \div 2) \times 91 = 4095$

4095 squares are needed to build Figure 90.

Q11 $12.6 + 7 = 19.6$

$19.6L = 19600 \text{ cm}^3$

Base area $= 35 \times 35$

Height of water $\rightarrow 19600 \div 35 \div 35 = 16$

Height of Tank $\rightarrow 16 \div 2 \times 3 = 24$

The height of tank is 24cm.

Q12 Bernice $\rightarrow \frac{3}{5} \times 650 = 390$
 Cindy $\rightarrow 390 + 150 = 540$
 $390 + 540 + 650 = 1580$
 5 units $\rightarrow 650$
 1 unit $\rightarrow 130$
 $130 \times 11 = 1430$
 $1430 + 150 = 1580$

They had 1580 stickers altogether.

Q13 $\frac{1}{2} \times 8 \times 12 = 48$

$20 - 8 = 12$

$\frac{1}{2} \times 12 \times 20 = 120$

$120 + 48 = 168$

The area of shaded parts is 168 cm^2 .

Q14 2 units $\rightarrow 49 + 3 = 52$

1 unit $\rightarrow 26$

3 units $\rightarrow 78$

$78 + 2 = 80$

$80 \times 2 = 160$

$160 + 1 = 161$

$161 \times 2 = 322$

Mrs Chan had \$322 at first.

Q15(a) 1 group of 12min

A $\rightarrow 12 \div 3 = 4$

B $\rightarrow 12 \div 4 = 3$

Difference $\rightarrow 4 - 3 = 1$ (every 12 min Machine A will produce 1 box more than B)

$12 \times 20 = 240$

240 min = 4 hours

Machines A needs 4 hours.

(b) In 12 min, A + B $\rightarrow 3 + 4 = 7$

In 240 min, A $\rightarrow 240 \div 3 = 80$

B $\rightarrow 240 \div 4 = 60$

$80 + 60 = 140$

Both machines will produce 140 boxes.

Q16(a) 4 units $\rightarrow 1168$

1 unit $\rightarrow 292$

5 units $\rightarrow 1460$

$1460 + 355 = 1815$

Alan had 1815 marbles at first.

(b) Ben (at the end) $\rightarrow 292$

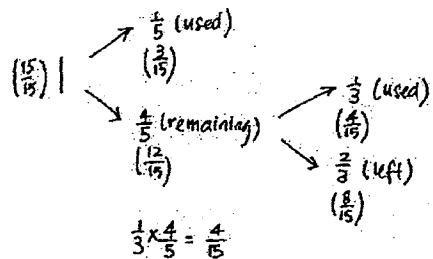
Carl (at the end) $\rightarrow 292 + 500 = 792$

$355 \times 2 = 710$

$792 - 710 = 82$

Carl had 82 marbles at first.

Q17



8 units + 242 $\rightarrow 30$ units. (twice as many)

22 units $\rightarrow 242$

1 unit $\rightarrow 11$

15 units $\rightarrow 165$

Q18(a)	L : A : Diff
(Before)	2 : 3 : 1
(spent)	\$250 \$250
(after)	3 : 7 : 4
	8 : 12 : 4

8 units – 3 units → 5 units

5 units → 250

1 unit → 50

12 units → 600

Andrew had \$600 at first.

- (b) 10 units ÷ 2 = 5 units
 5 units – 3 units → 2 units
 2 units → $50 \times 2 = 100$

Andrew must give \$100 to Lily.



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form Class: P5 _____ Math Teacher: _____

Date: 27 Oct 2014

Duration: 50 min

Your Paper 1 Score (Out of 40 marks)	
Your Paper 2 Score (Out of 60 marks)	
Your Total Score (Out of 100 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. NO calculator is allowed for this paper.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

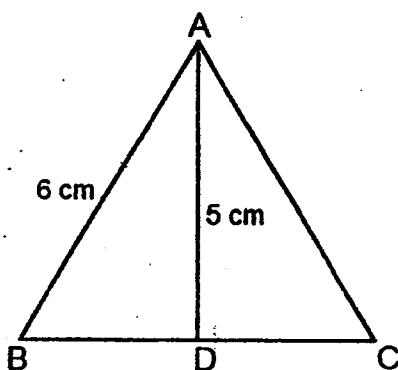
1. Round off 349.016 to the nearest hundredths.

- (1) 300
- (2) 349.01
- (3) 349.02
- (4) 400

2. How many ninths are there in $2\frac{5}{9}$?

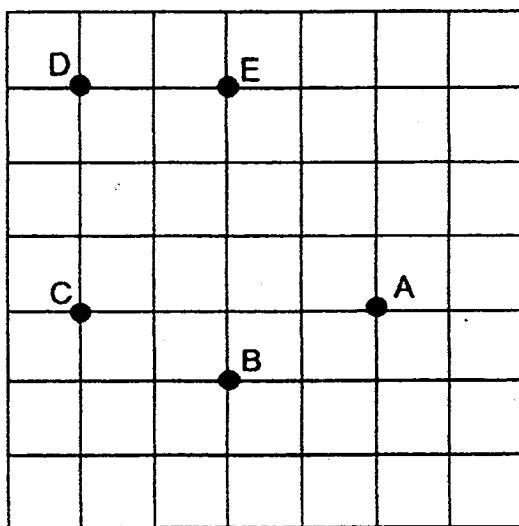
- (1) 16
- (2) 18
- (3) 23
- (4) 28

3. Triangle ABC is an equilateral triangle. Find its perimeter.



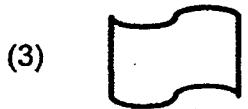
- (1) 11 cm
- (2) 15 cm
- (3) 18 cm
- (4) 23 cm

4. In the square grid below, Point C is _____ of Point E.



- (1) NE
- (2) NW
- (3) SE
- (4) SW

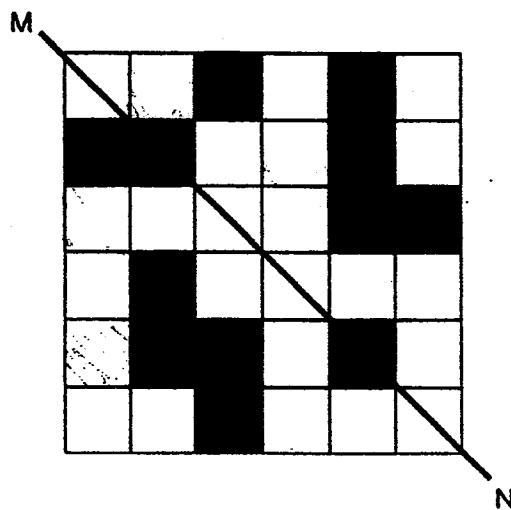
5. Which one of the shapes below cannot be tessellated?



6. The number of visitors to a museum in a year was 550 000 when rounded off to the nearest ten thousands. What was the largest possible number of people visitors to the museum?
- (1) 544 999
(2) 545 999
(3) 554 999
(4) 555 999
7. The usual price of an oven was \$450. During a sale, Suzanne paid \$360 for it. What was the percentage discount given?
- (1) 20%
(2) 25%
(3) 75%
(4) 80%
8. Express $3\frac{1}{8}$ as a decimal.
- (1) 3.1
(2) 3.12
(3) 3.125
(4) 3.18
9. In a class of 36 pupils, 28 pupils were swimmers.
Find the ratio of the number of pupils who were swimmers to those who were non-swimmers.
- (1) 2 : 7
(2) 2 : 9
(3) 7 : 2
(4) 7 : 9

10. Raj sat for four tests. The average mark of the first three tests is 14. He scored 18 for his fourth test. Find his total marks for the four tests.
- (1) 15
(2) 32
(3) 56
(4) 60

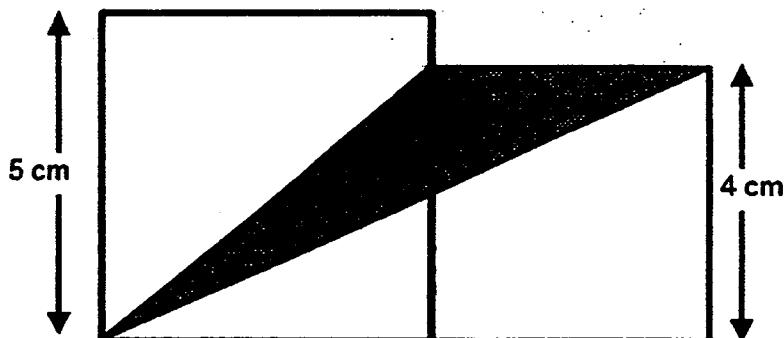
11. What is the least number of squares that must be shaded so that MN is the line of symmetry in the figure?



- (1) 1
(2) 2
(3) 3
(4) 4

12. During a PE lesson, the ratio of the number of pupils who played basketball to the number of pupils who played netball was 3 : 2. The ratio of the number of pupils who played netball to the number of pupils who played soccer was 12 : 7. Find the ratio of the number of pupils who played basketball to the number of pupils who played soccer.
- (1) 5 : 7
(2) 15 : 7
(3) 3 : 7
(4) 18 : 7

13. The figure below is made up of two squares of different sizes. Find the area of the shaded part.



- (1) 8 cm^2
- (2) 2 cm^2
- (3) 10 cm^2
- (4) 18 cm^2

14. Mrs Yeo received a gift basket containing apples and pears. $\frac{5}{8}$ of the fruits were apples. $\frac{1}{3}$ of the apples were red and the rest were green. There were 90 green apples. How many fruits were there in the basket?

- (1) 135
- (2) 216
- (3) 360
- (4) 432

15. Which of the following is not a common factor of 54 and 72?

- (1) 9
- (2) 6
- (3) 3
- (4) 4

Questions 16 to 25 carry 1 mark each.

Write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following from the smallest to the largest.

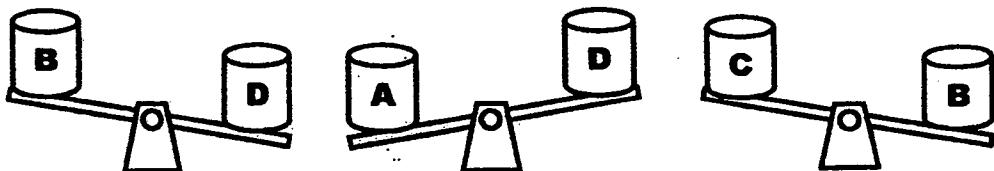
$$1\frac{2}{3}, 1.78, \frac{7}{4}, 1.6$$

Ans: _____, _____, _____, _____

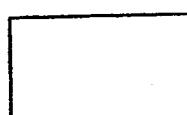
17. Find the value of 40×0.965 .

Ans: _____

18. In the diagram below, container A, B, C and D have different masses.
Arrange them from the lightest to the heaviest.



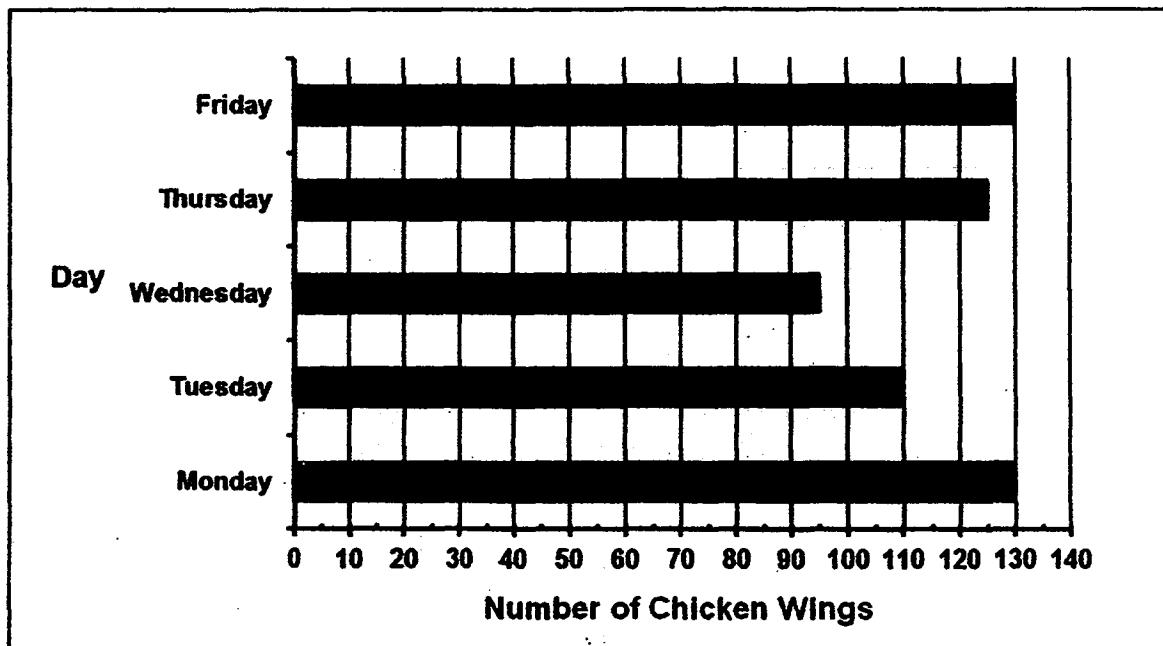
Ans: _____



19. $\frac{3}{5}$ kg of grapes were shared equally among Jason and his 5 cousins. What was the mass of grapes received by each of them? Express your answer as a fraction in its simplest form.

Ans: _____ kg

20. The bar graph below shows the number of chicken wings sold in the canteen over five days.



What was the total number of chicken wings sold from Tuesday to Thursday?

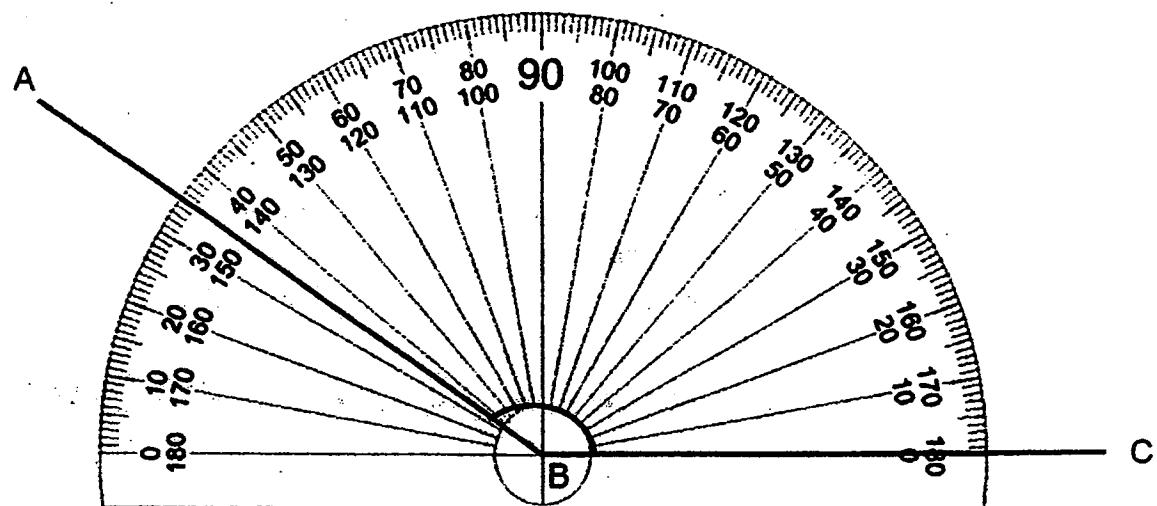
Ans: _____



21. The total number of seashells 3 girls collected is 138. Find the average number of seashells each girl collected.

Ans: _____

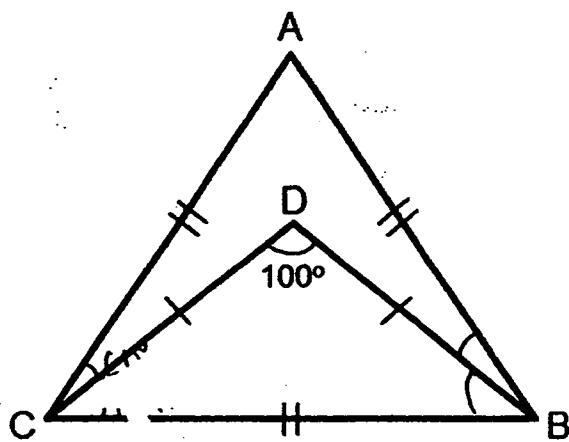
22. In the figure below, find the $\angle ABC$.



Ans: _____^o

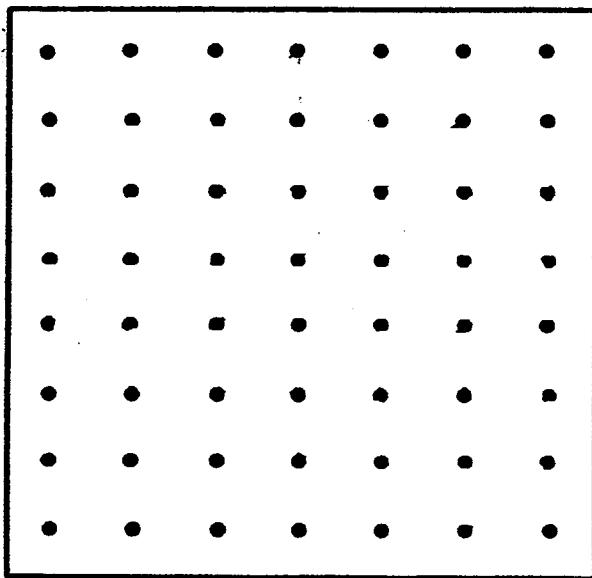


23. The figure below is not drawn to scale. ABC is an equilateral triangle. DBC is an isosceles triangle and $\angle BDC = 100^\circ$. Find $\angle ABD$.



Ans: _____ °

24. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided within the box.



25. There were 600 people at a funfair. 120 of them were adults.
What percentage of the people at the funfair were children?

Ans: _____ %

Questions 26 to 30 carry 2 marks each.

Show your working clearly in the space provided for each question and write your answers in the space provided.

For questions which require units, give your answers in the units stated.

All diagrams are not drawn to scale.

Answers in fractions or ratio must be expressed in the simplest form.

26. Gabrielle drinks 7 bottles of mineral water each day. Each bottle contains 330 ml of water. What is the total volume of water that Gabrielle drinks each day? Express your answer in litres.

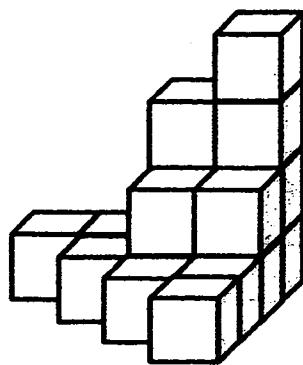
Ans: _____ l

27. Mrs Lee bought 9 kg of flour. She used $\frac{11}{12}$ of it to prepare pancakes and packed the rest equally into 3 packets. What was the mass of each packet of flour? Express your answer as a decimal.

Ans: _____ kg



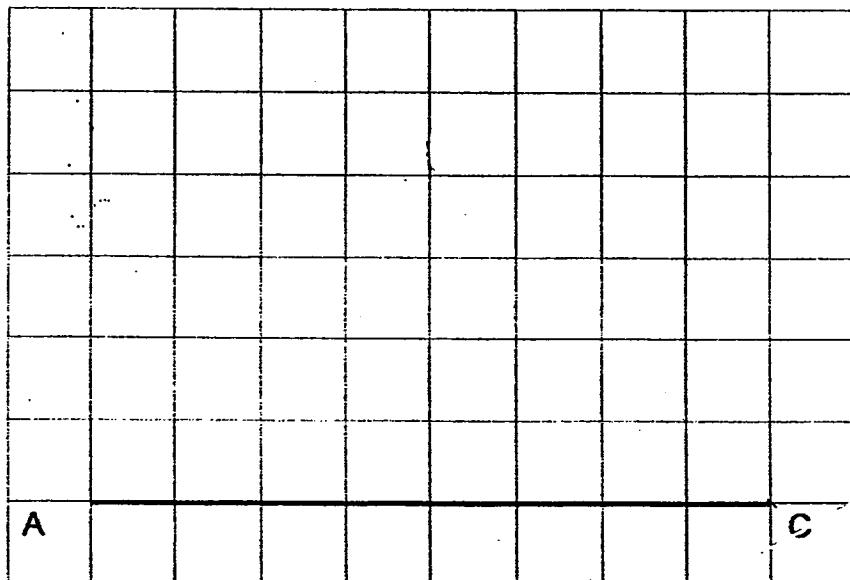
28. The solid below is made up of 1-cm cubes.



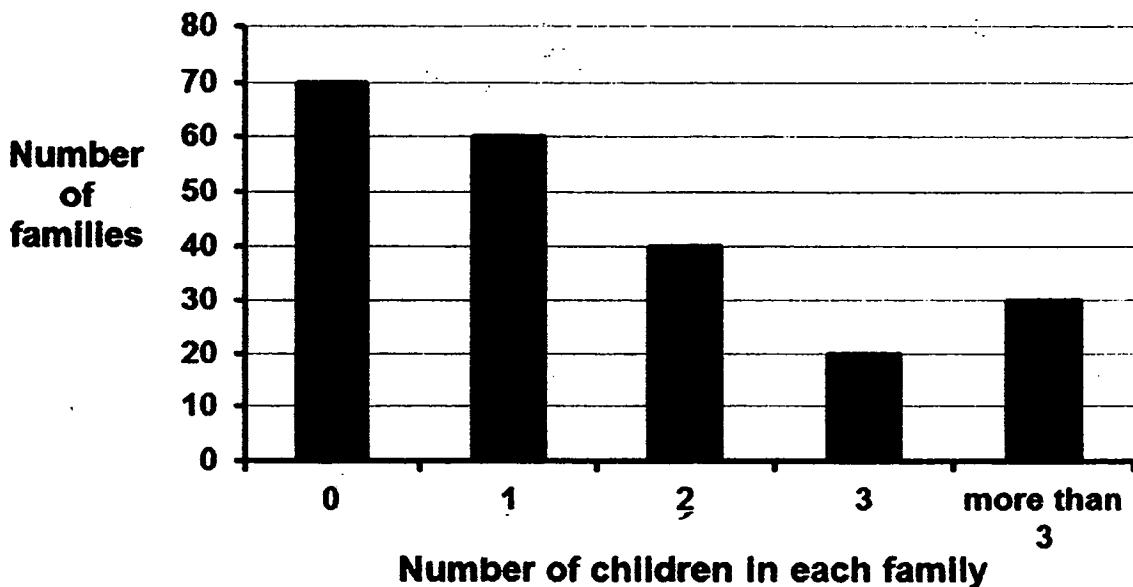
How many more 1-cm cubes are needed to turn the solid into a 4-cm cube?

Ans: _____

29. In the grid table below, draw a right-angled isosceles triangle ABC such that $\angle ABC = 90^\circ$. The line AC has been drawn for you.



30. The bar graph below shows the number of children in each family living in a particular block of HDB flats.



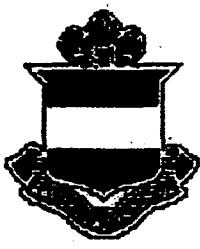
Find the total number of children in all the families that have 2 or less children.

Ans: _____

End of Paper
☺ Please check your work carefully ☺

Setters : Mr Ho K. H.
Mrs E. Tang
Mrs J. Seto





**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Math Teacher: _____

Date: 27 Oct 2014

Duration: 1 h 40 min

**Your Paper 2 Score
(Out of 60 marks)**

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

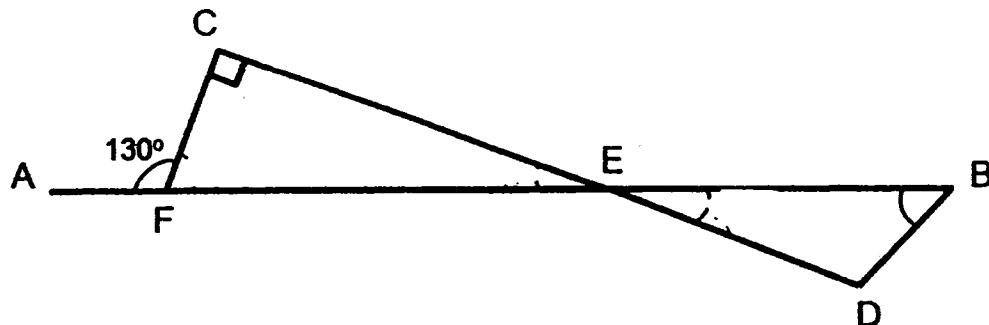
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

Figures are not drawn to scale.

For questions which require units, give your answers in the units stated. (10 marks)

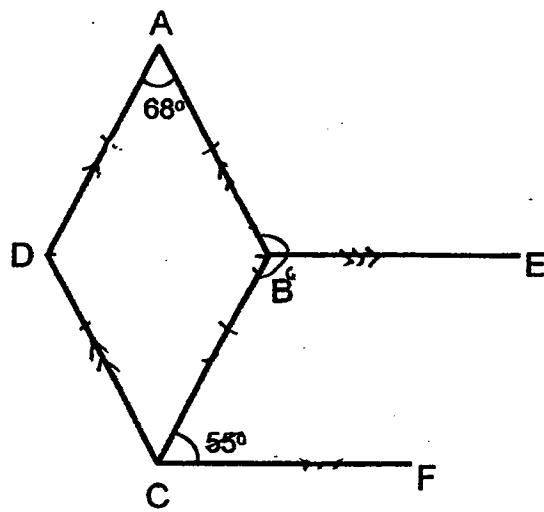
1. The figure below is not drawn to scale. AB and CD are straight lines.

Find $\angle BED$.



Ans: _____ ° [2]

2. In the figure below, ABCD is a rhombus with $\angle BAD = 68^\circ$. BE and CF are parallel lines with $\angle BCF = 55^\circ$. Find $\angle ABE$.

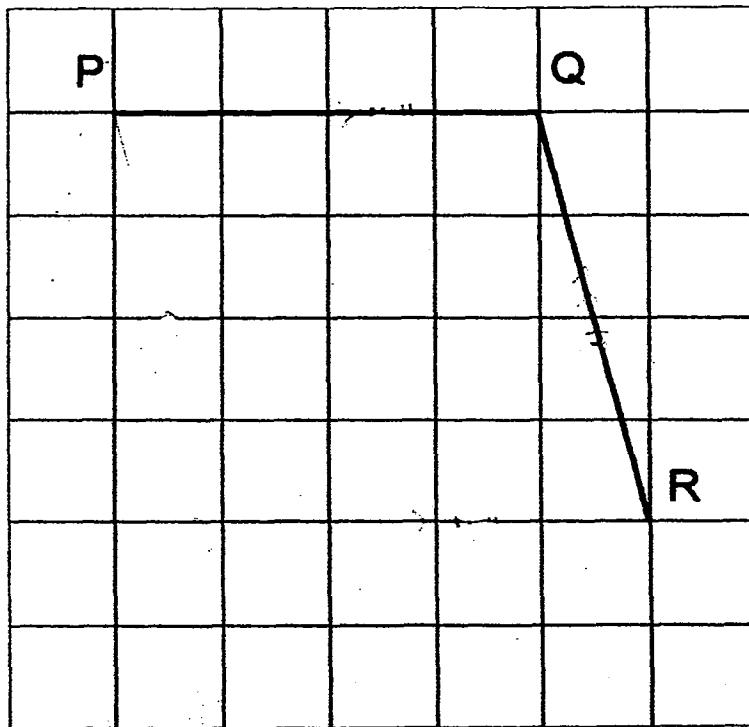


Ans: _____ ° [2]

3. A group of 40 girls had to fold paper cranes for fund raising. When two of them fell ill and did not turn up, the rest of the girls had to fold 6 more paper cranes each. How many paper cranes did the girls have to fold altogether?

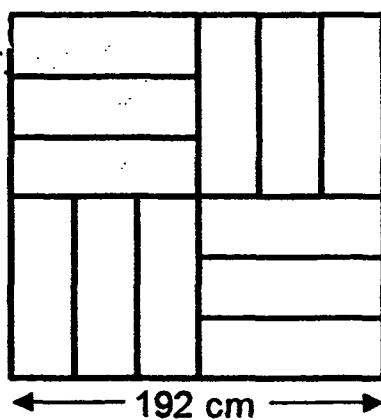
Ans: _____ [2]

4. In the figure below, PQ and QR are two sides of a parallelogram. Draw two lines PS and SR to complete the parallelogram.



5. The figure below is made up of 12 identical rectangles.

Find the area of 1 rectangle.



Ans: _____ cm^2 [2]



For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

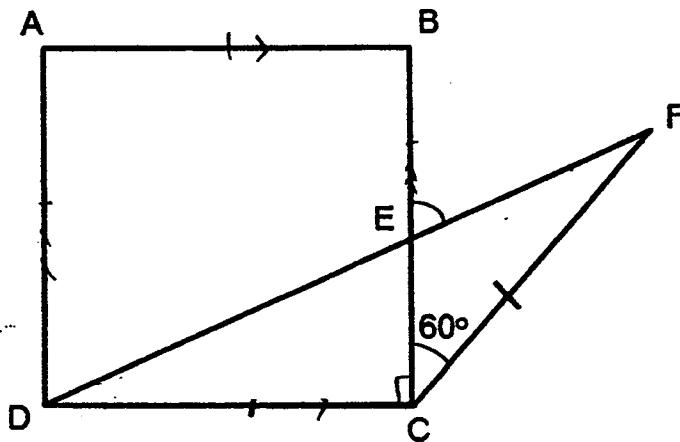
Figures are not drawn to scale.

The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. At a bookshop, Natalie paid \$21.85 for a story book and 8 pens. Shirley paid \$33.05 for a similar story book and 15 similar pens. How much would 5 pens cost?

Ans : _____ [3]

7. In the figure below, ABCD is a square and CDF is an isosceles triangle with DC = CF. Given that $\angle ECF = 60^\circ$. Find $\angle BEF$.



Ans: _____ [3]

8. Sammie and her five friends have a total of 251 dolls. She has 7 dolls less than the average number of dolls the rest of her friends have. How many dolls does Sammie have?

Ans: _____ [3]

9. Sean kept all his coins in a jar. On the first day, he took out half of the coins from the jar but put back 8 coins at the end of the day. On the second day, he took out half of the remaining coins from the jar but put back 8 coins at the end of that day. On the third day, Sean took out half of the remaining coins from the jar and spent all of them. In the end, Sean realised that he only had 26 coins left in the jar. How many coins did Sean have in the jar at first?

Ans: _____ [4]

10. Heather bought a jigsaw puzzle. Over the first weekend, she fixed 38% of the puzzle. During the second weekend, Heather fixed another 792 pieces. By then, only 18% of the puzzle was not fixed.
- (a) What percentage of the puzzle was fixed during the second weekend?
- (b) What was the total number of pieces in the jigsaw puzzle?

Ans : (a). _____ [1]

(b). _____ [3]

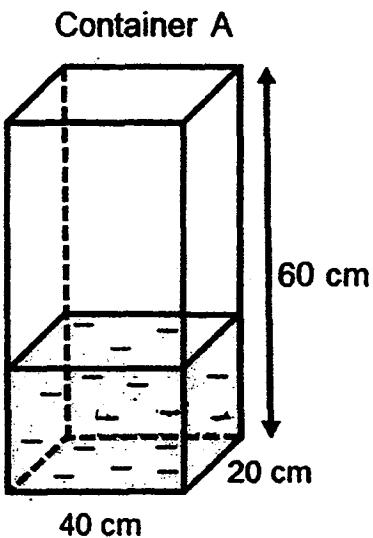


11. Sam was saving money to buy a watch which cost \$160. In week 1, he saved \$6. In week 2, he saved \$4 more than he did in week 1. In week 3, he saved \$4 more than he did in week 2. In which week would he have saved a total of \$160?

Ans: _____ [3]



12. Container A was $\frac{1}{3}$ filled with orange juice. Then, Mr Tan added 23.4 ℥ of orange juice into it. How much more orange juice would he need to fill up Container A to its brims?



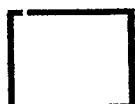
Ans: _____ [4]

13. Mr Raju bought a television set from Comet Megastore and enjoyed a 15% discount. He paid a total amount of \$2819.45 including 7% GST.
- (a) What was the price of the television set before GST?
- (b) What was the original price of the television set?



Ans: (a) _____ [2]

(b) _____ [2]



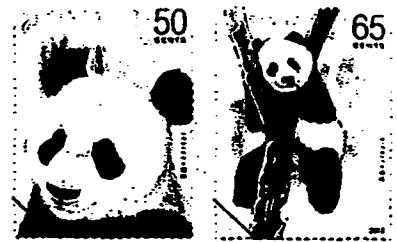
14. Marie had the same number of red, green and blue beads at first. After using some red and green beads and 1108 blue beads to make necklaces, Marie had 4250 beads left. There were twice as many red beads as green beads left. The number of blue beads left was 680 fewer than the number of red beads left. How many blue beads did she have at first?

did she have at first

Ans: _____ [4]



15. Lee May bought 48 postage stamps. Each stamp cost either 50 cents or 65 cents. She paid \$27 in total. How many 50-cent stamps did she buy?



Ans: _____ [4]



16. The table below shows the parking charges at Galaxy Mall:

1 st hour or part thereof	\$2.80
Subsequent half an hour or part thereof	\$1.00
After 6 p.m.	\$3.50

- (a) Michelle arrived at Galaxy Mall at 11.45 a.m. and left at 1.30 p.m. How much did she have to pay for parking fees?
- (b) Mr Koh and his family went to Galaxy Mall to watch a movie. They left the mall at 8.30 p.m. after dinner. If Mr Koh paid \$11.30 for his parking fees, what was the earliest time they could have arrived at the mall?

Ans: (a) _____ [2]

(b) _____ [3]

17. There were 378 chairs in the school hall. The number of white chairs to the number of grey chairs was 1 : 5.
- (a) Find the number of grey chairs.
- (b) The teacher increased the number of white chairs so that the ratio of the number of white chairs to the number of grey chairs became 3 : 7.
How many white chairs were added?

Ans: (a) _____ [2]

(b) _____ [3]



18. Mr Jones had some cows and some horses on his ranch. He sold $\frac{2}{5}$ of the cows and $\frac{1}{6}$ of the horses. A total of 570 cows were sold. In the end, Mr Jones had the same number of cows and horses left.
- Find the total number of cows and horses on the ranch at first.
 - Express the number of horses at first as a fraction of the number of cows at first. Give your answer in the simplest form.

Ans: (a) _____ [3]

(b) _____ [1]

End of Paper
Please check your work carefully ☺

Setters: Mr. Ho K. H.
Mrs E. Tang
Mrs J. Seto

EXAM PAPER 2014

LEVEL : PRIMARY 5
SCHOOL : RAFFLES
SUBJECT : MATHS
TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	3	3	4	4	5	1	3	3	4	4	4	1	2	4

Q16 $16, 1\frac{2}{3}, \frac{7}{4}, 1.78$

Q17 38.6

Q18 C,B,D,A

Q19 $\frac{1}{10}$ kg

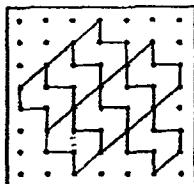
Q20 330 chicken wings

Q21 46 seashells

Q22 145°

Q23 20°

Q24



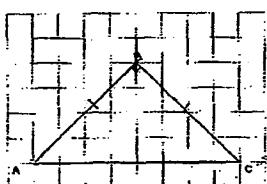
Q25 80%

Q26 2.32l

Q27 0.25kg

Q28 47

Q29



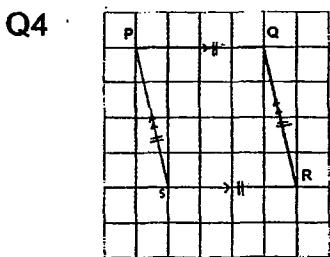
Q30 140

Paper 2

Q1 $\angle a = 180^\circ - 130^\circ = 50^\circ$
 $\angle BED = 180^\circ - 90^\circ - 50^\circ$
 $= 40^\circ$

Q2 $\angle a = 180^\circ - 56^\circ = 124^\circ$
 $\angle b = 180^\circ - 68^\circ = 112^\circ$
 $\angle BED = 360^\circ - 112^\circ - 124^\circ$
 $= 124^\circ$

Q3 $40 - 2 = 38$
 $38 \times 6 = 228$
 $228 \div 2 = 114$
 $114 \times 40 = 4560$



Q5 $192\text{cm} \times 192\text{cm} = 36864\text{cm}^2$
 $36864\text{cm}^2 \div 12 = 3072\text{cm}^2$

Q6 $S + 8P = 21.85$
 $S + 15P = 33.05$
 $7P = 33.05 - 21.85 = 11.2$
 $P = 11.2 \div 7 = 1.6$
 $1.6 \times 5 = 8$

Q7 $\angle a = (180^\circ - 60^\circ - 90^\circ) \div 2$
 $= 15^\circ$
 $\angle b = 180^\circ - 60^\circ - 15^\circ$
 $= 105^\circ$
 $\angle BEF = 180^\circ - 105^\circ$
 $= 75^\circ$

Q8 $7 \times 5 = 35$
 $251 - 35 = 216$
 $216 \div 6 = 36$

Q9 $26 \times 2 = 52$
 $52 - 8 = 44$
 $44 + 44 = 88$
 $88 - 8 = 80$
 $80 \times 2 = 160$

Q10 (a) $38\% + 18\% = 56\%$
 $100\% - 56\% = 44\%$

(b) $\frac{792}{44} \times 100 = 1800$

Q11

Week	1	2	3	4	5	6	7	8	9
\$	6	10	14	18	22	26	30	34	38

$\underbrace{\hspace{10em}}_{\$160}$

$$6 + 10 + 14 + 18 + 22 + 26 + 30 + 34 = 160$$

Q12 $40 \times 20 \times 60 = 48000$

$$48000 \times \frac{1}{3} = 16000$$

$$16000 \text{ cm}^3 = 16 \text{ L}$$

$$16 + 23.4 = 39.4$$

$$48000 \text{ cm}^3 = 48 \text{ L}$$

$$48 - 39.4 = 8.6$$

Q13 107% $\rightarrow \$2819.45$

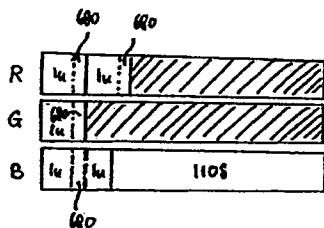
100% $\rightarrow \$2635$

100% - 15% = 85%

85% $\rightarrow \$2635$

100% $\rightarrow \$3100$

Q14



$$680 \times 4 = 2720$$

$$4250 - 2720 = 1530$$

$$5 \times 1530$$

$$14 = 1530 \div 5 = 306$$

$$306 \times 2 = 612$$

$$612 + 680 = 1292$$

$$1108 + 1292 = 2400$$

Q15 Assume all are 65¢ stamps

$$0.65 \times 48 = 31.2$$

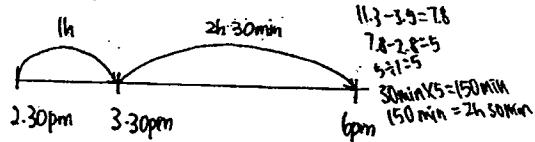
$$31.2 - 27 = 4.2$$

$$0.65 - 0.5 = 0.15$$

$$4.2 \div 0.15 = 28$$

Q16

$$\begin{array}{c}
 \text{15 min} \quad \text{1h 30 min} \\
 \text{11.45 am} \quad \text{1-30 pm} \\
 \text{1h 30 min} + \text{15 min} = \text{1h 45 min} \\
 \text{1h 45 min} - \text{1h} = \text{45 min} \\
 \text{45 min} : \text{30 min} = 1.5
 \end{array}$$



$$H=2$$

$$X=2$$

$$2+2.8=4.8$$

$$11.3-3.9=7.8$$

$$7.8-2.8=5$$

$$5+1=6$$

$$30 \text{ min} \times 6 = 180 \text{ min}$$

$$180 \text{ min} = 3 \text{ hours}$$

Q17

$$W:G:T$$

$$1:5:6$$

$$(378)$$

$$\frac{5}{6} \times 378 = 315$$

$$W:G$$

$$1:5 \times 7$$

$$7:35$$

$$A:T \quad 3:7$$

$$15:35$$

$$35+7=42$$

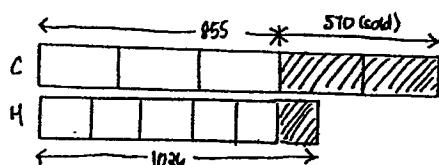
$$42 \nmid 378$$

$$14 \nmid 378 \div 42 = 9$$

$$15-7=8$$

$$9 \times 8 = 72$$

Q18



$$24 \nmid 570$$

$$14 \nmid 570 \div 2 = 285$$

$$285 \times 3 = 855$$

$$5 \nmid 855$$

$$14 \nmid 855 \div 5 = 171$$

$$H \rightarrow 171 \times 6 = 1026$$

$$C \rightarrow 285 \times 5 = 1425$$

$$1425 + 1026 = 2451$$

$$\frac{1026}{1425} = \frac{18}{25}$$



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form Class: P5 _____ Banded Math Class: P5 _____

Date: 8 October 2013 Duration: 50 min

Your Score (Out of marks)	
Your Score (Out of 40 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. NO calculator is allowed for this paper.

SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

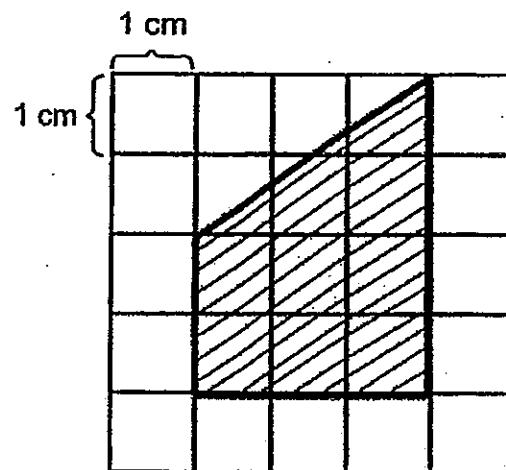
1. Round off 9.155 to the nearest tenths.

- (1) 9.1
- (2) 9.15
- (3) 9.16
- (4) 9.2

2. How many sevenths are there in $2\frac{3}{7}$?

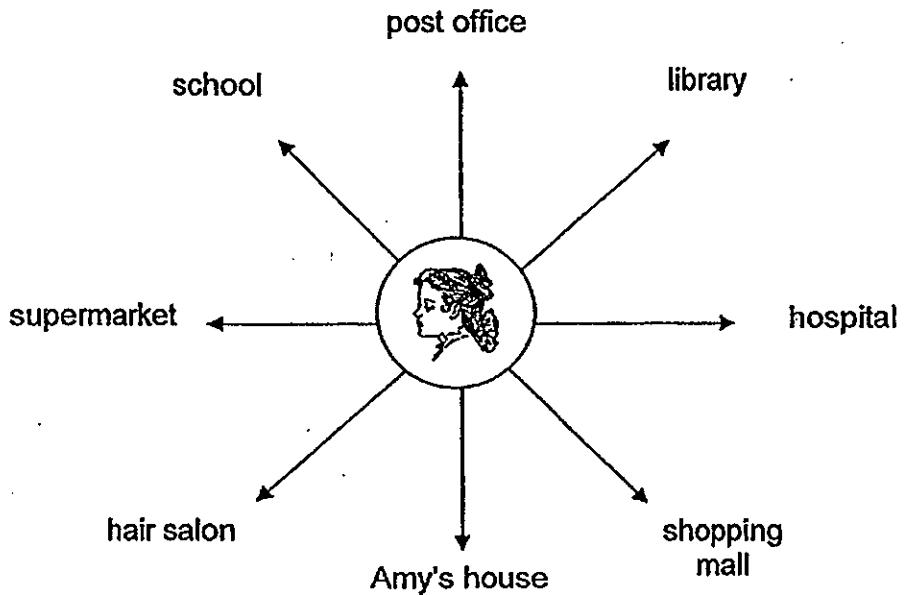
- (1) 12
- (2) 14
- (3) 3
- (4) 17

3. The shaded part of the figure is _____ cm^2 .



- (1) 6
- (2) 8
- (3) 9
- (4) 12

4. Natalie is facing the supermarket now. What is the angle she needs to turn in the clockwise direction so that she can face the library?



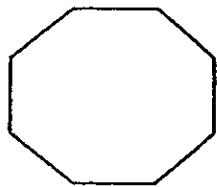
- (1) 135°
- (2) 180°
- (3) 225°
- (4) 270°

5. Which one of the following shapes cannot be tessellated?

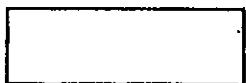
(1)



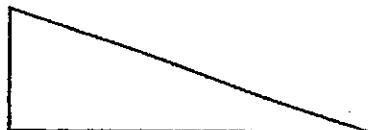
(2)



(3)



(4)



6. A number when rounded off to the nearest thousands is 206 000.
Which of the following can be the number?
- (1) 206 095
(2) 206 595
(3) 207 495
(4) 207 595
7. There are 500 people at a carnival. 100 of them are adults and the rest are children. What percentage of the people are children?
- (1) 20%
(2) 40%
(3) 60%
(4) 80%
8. Express $6\frac{17}{25}$ as a decimal.
- (1) 6.068
(2) 6.6
(3) 6.68
(4) 6.8

9. Joel's salary is $\frac{2}{3}$ of Melanie's salary while Melanie's salary is $\frac{9}{10}$ of Kathy's salary. What fraction of Kathy's salary is Joel's salary?

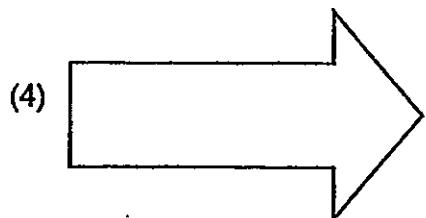
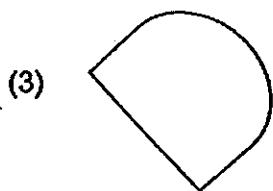
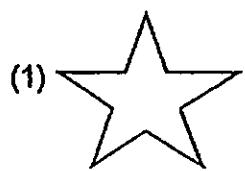
(1) $\frac{1}{5}$

(2) $\frac{3}{5}$

(3) $\frac{3}{10}$

(4) $\frac{2}{3}$

10. Which of the following shapes does not have any line of symmetry?



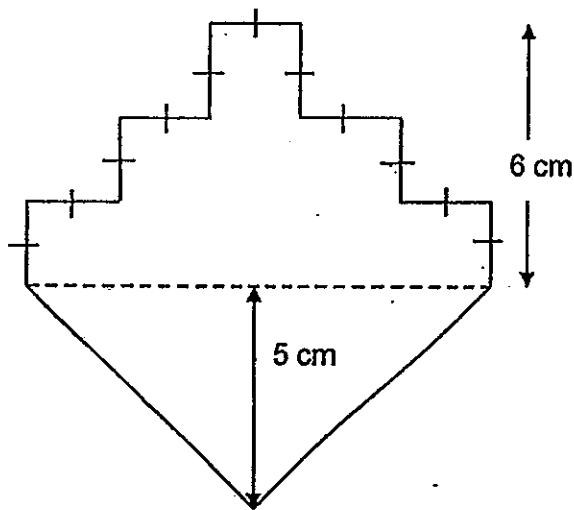
11. Miss Lim bought 2 tables and 8 chairs.

Each table was 6 kg while the average mass of the chairs was 4.5 kg.

What was the average mass of all the items?

- (1) 1.05 kg
- (2) 4.8 kg
- (3) 10.5 kg
- (4) 36.0 kg

12. Find the area of the figure below.



- (1) 25 cm^2
- (2) 36 cm^2
- (3) 61 cm^2
- (4) 86 cm^2

13. John had some marbles. $\frac{1}{4}$ of the marbles were red. $\frac{2}{5}$ of the remaining marbles were blue while the rest were yellow. There were 84 blue marbles. How many marbles did he have altogether?

- (1) 112
- (2) 140
- (3) 240
- (4) 280

14. Nat spent $\frac{2}{5}$ of his salary on food. After he had spent another \$165 on food, the ratio of his expenditure on food to his salary became 11 : 20. What was Nat's salary?

- (1) \$ 275
- (2) \$ 825
- (3) \$ 1100
- (4) \$ 3300

15. $\square \div (2 + 3 \times 6) = 4$. What is the missing number in the box?

- (1) 5
- (2) 44
- (3) 80
- (4) 120

SECTION B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following in descending order.

$$\frac{1}{4}, 0.8, \frac{7}{8}, 0.205$$

Ans: _____, _____, _____

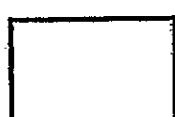
17. Find the value of 30×5.81 .

Ans: _____

18. Meiling had $2\frac{2}{3}$ kg of butter. She bought another 3.5 kg of butter from the supermarket. How much butter did she have now?

Express your answer as a mixed number.

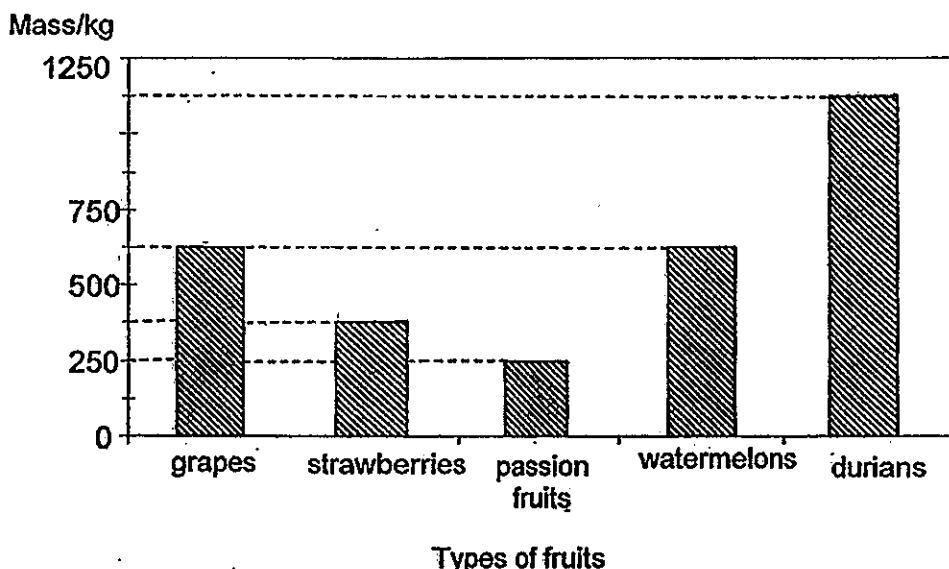
Ans: _____ kg



19. Malcolm spent $\frac{1}{7}$ of his money on a book. Then he shared the remaining money with three of his siblings. What fraction of Malcolm's money did each of them receive?

Ans: _____

20. The graph below shows the mass of different types of fruits sold by a vendor in January 2013.

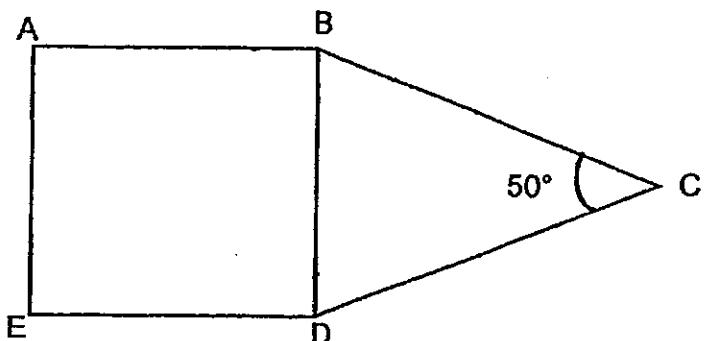


What was the total mass of passion fruits, durian and grapes sold in January 2013?

Ans: _____ kg

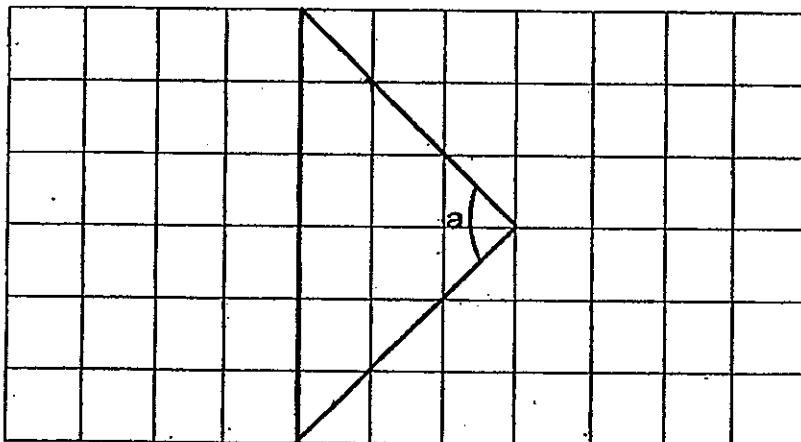


- 21 ABDE is a square and BCD is an isosceles triangle.
 $\angle BCD$ is 50° . Find $\angle ABC$.



Ans: _____ °

22. The diagram below shows a triangle on a square grid. What is the value of $\angle a$?



Ans: _____ °

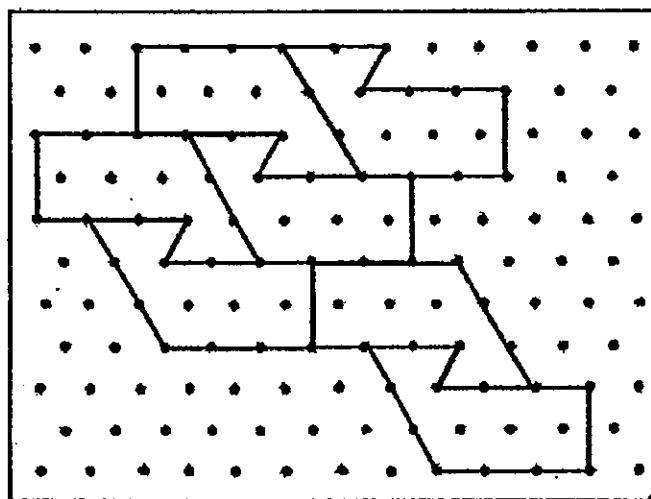
23. The table below shows the volume of cooking oil used by a restaurant in 5 days.
What was the average volume of cooking oil used?

Day	Volume (l)
1	12.8
2	15.9
3	16.8
4	11.6
5	14.7

Ans: _____ l



24. Extend the tessellation by drawing 2 more unit shapes in the space provided within the box.



25. There are 240 beads in a bag. 60 of them are green and the rest are yellow. What percentage of the beads are yellow?

Ans: _____ %

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

26. Lisa ran a distance of 405 m each day. What was the total distance she ran in 7 days? Express your answer in km.

Ans: _____ km

27. $\frac{3}{8}$ of a number is 1.40 . What is the number?

Express your answer as a mixed number in its simplest form.

Ans: _____

28. A rectangular tank measuring 20 cm long and 10 cm wide contains 4 litres of water. What is the height of the water in the tank?

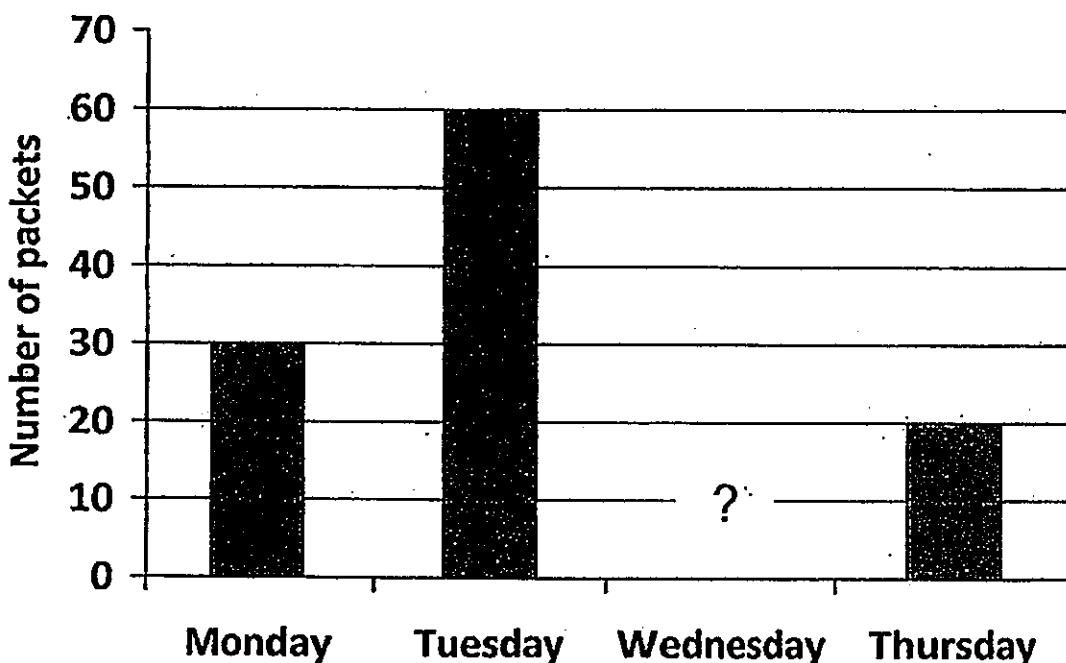
Ans: _____ cm



29. The bar graph below shows the number of packets of rice sold from Monday to Thursday at a supermarket.

The number of packets of rice sold on Wednesday was $\frac{2}{3}$ of the number of packets of rice sold on Tuesday.

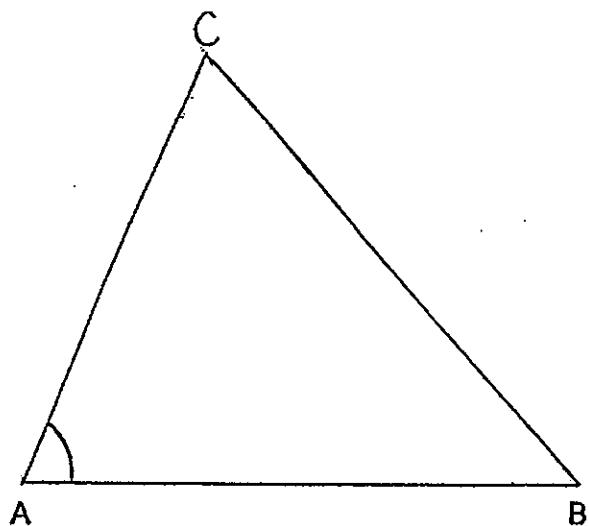
Each packet of rice weighed 5 kg.



What was the total weight of rice sold from Monday to Thursday at the supermarket?

Ans: _____ kg

30. In the space below, draw a triangle ABC in which $\angle BAC = 66^\circ$ and $\angle ABC = 48^\circ$. Line AB has been drawn for you.
Measure and record the length of BC.



Ans: BC is _____ cm

End of Paper
© Please check your work carefully

Setters: D. Lau
Luo Z.
Yeo M.





**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Banded Math Class: P5 _____

Date: 8 October 2013 Duration: 1 h 40 min

Your Score (Out of marks)		
	Banded Math Class	Level
Highest Score		
Average Score		

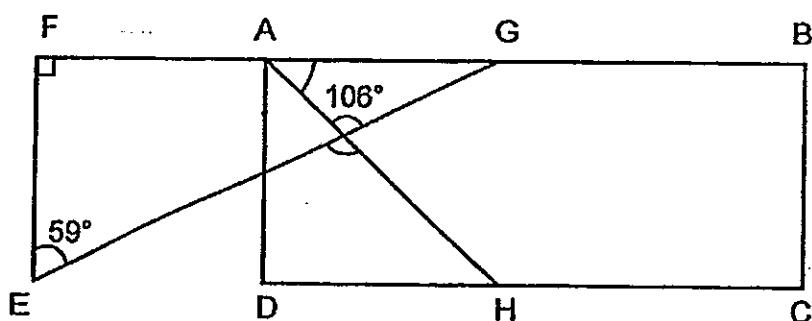
INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale.

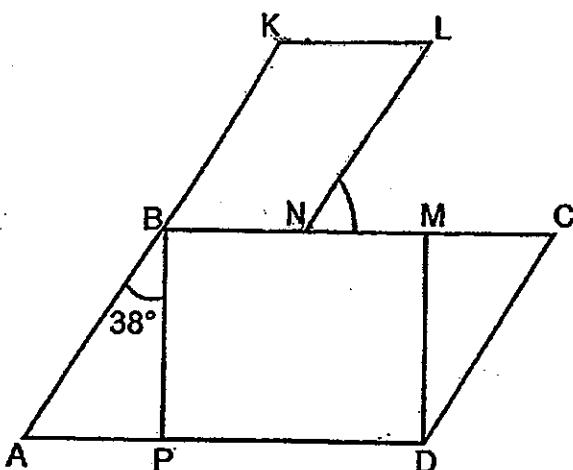
For questions which require units, give your answers in the units stated. (10 marks)

1. In the figure below, ABCD is a rectangle. FAB is a straight line. Find $\angle GAH$.

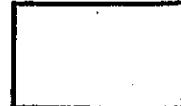


Ans: _____ ° [2]

2. The figure below is made up of 2 parallelograms, ABCD and BKLN, and a rectangle BMDP. ABK is a straight line. Find $\angle LNC$.



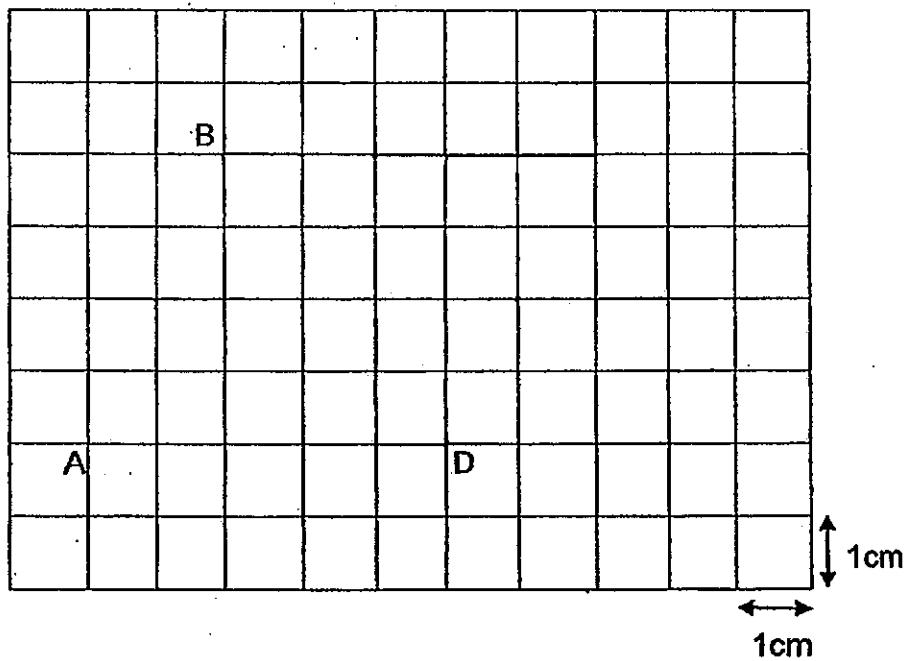
Ans: _____ ° [2]



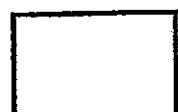
3. A 2-digit number is a multiple of 4 and a factor of 60.
The number is between 15 and 50.
What is the sum of the 2 digits of the number?

Ans: _____ [2]

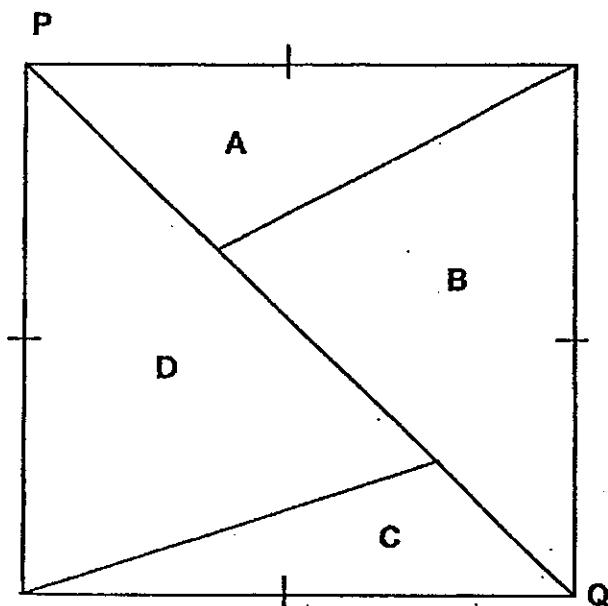
4. Complete parallelogram ABCD within the grid provided.
Sides AB and AD have been drawn for you.



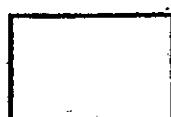
[2]



5. The figure below shows a square which is divided into 4 triangles, A, B, C and D. The ratio of the area of A to B to C is 3 : 5 : 2 respectively. Given that the area of D is 96 cm^2 , find the area of B.



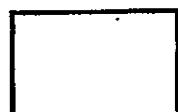
Ans: _____ cm^2 [2]



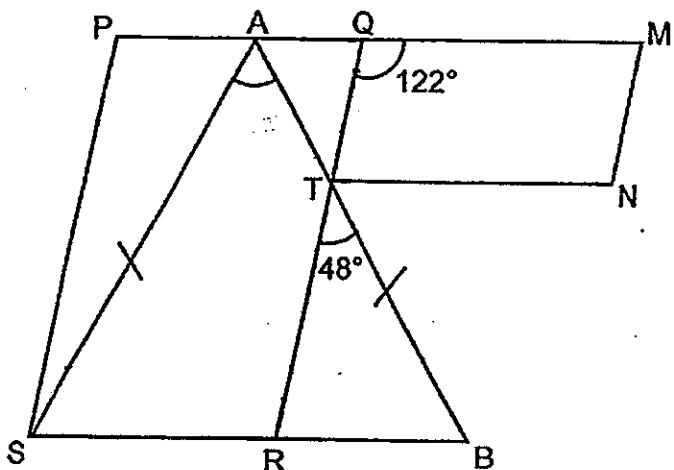
For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. Janice spent \$130.40 on a pair of jeans, a dress and a blouse. The pair of jeans cost \$18.70 more than the dress and thrice as much as the blouse. How much did the dress cost?

Ans: _____ [3]



7. The figure below is made up of an isosceles triangle ABS and 2 parallelograms, PQRS and QMNT. $AS = AB$, $\angle MQT = 122^\circ$ and $\angle RTB = 48^\circ$. PQM is a straight line. Find $\angle SAB$.



Ans: _____ [3]

8. The average mass of Joe, Ruth and Melvin is 65 kg.

Joe is 69 kg while Ruth's mass is $\frac{3}{4}$ of Melvin's mass.

What is Melvin's mass?

Ans: _____ [3]

9. Ethan, Freddy and Gary have 146 marbles altogether. Freddy has 9 more marbles than Gary. Ethan has 28 fewer marbles than Freddy.
- (a) How many marbles does Ethan have?
- (b) How many marbles does Gary have?

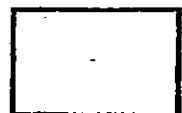
Ans: (a) _____ [2]

(b) _____ [1]



10. A school hall has 1120 chairs. Out of these chairs, 25% are grey while the rest are white. How many grey chairs must be added to the school hall so that the number of grey chairs is 30% of the total number of chairs now?

Ans: _____ [4]



11. Alexis bought 85 stickers. Each sticker cost either \$0.55 or \$0.30. She paid \$38.75 for all the stickers.
How many \$0.30 stickers did she buy?

Ans: _____ [3]



12. June bought 143.4 kg of sugar. She packed some of it into 35 packets of 1.5 kg.
The remaining sugar was packed into packets of 0.75 kg.
How much sugar was left unpacked?

Ans: _____ [4]



13. At an old folks' home, the number of residents increased by 15% from 2011 to 2012. However, it decreased by 6% from 2012 to 2013. The number of residents increased by 81 from 2011 to 2013. How many residents were there in 2013?

Ans: _____ [4]



14. Tom and Jerry had 1640 stamps at first. After giving away some stamps to their classmates, Tom had 4 times the number of stamps he gave away and Jerry had 3 times the number of stamps he gave away. They had a total of 1280 stamps left. How many stamps did Tom have at first?

Ans: _____ [4]



15. Mrs. Lee made some cookies and packed them in 50 small boxes and 12 big boxes that had an equal number of cookies each.

Each big box had 30 more cookies than each small box.

$\frac{5}{8}$ of the cookies made were packed in small boxes.

(a) Mrs. Lee collected \$559.50 after selling all the small boxes of cookies at \$8.55 each and some big boxes of cookies at \$16.50 each.
How many big boxes of cookies were left?

(b) How many cookies did Mrs. Lee make?

Ans: (a) _____ [2]

(b) _____ [3]



16. A wooden box with 20 identical bottles weighed 20.4 kg. After Chloe placed 8 more identical bottles and 6 more tin cans into the box, the total mass increased to 28.59 kg. Given that the mass of a bottle is 385 g more than a tin can, find
- the mass of 1 tin can,
 - and the mass of the wooden box.

Ans: (a) _____ [3]

(b) _____ [2]

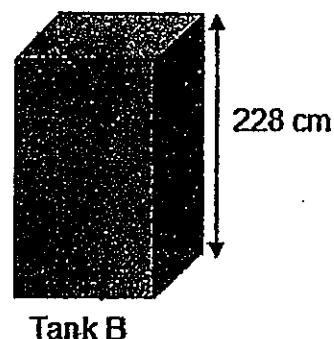
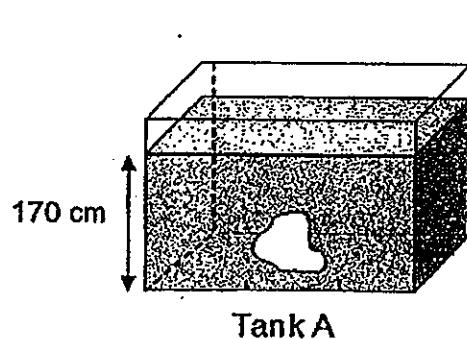


17. Tank A was empty while Tank B was completely filled with water.
The base area of Tank A is twice that of Tank B's.
The height of Tank B is 228 cm.

All the water from tank B was poured into Tank A and Tank A became $\frac{2}{5}$ filled with water.

After an object of 784 cm^3 had been put into Tank A, the water level became 170 cm.

What is the capacity of Tank A?



Ans: _____ [4]



18. Ali and Ben have some money in the ratio 3 : 1. Ali's money is all in 50-cent coins. Ben's money is in both 10-cent coins and 50-cent coins. The ratio of the number of 10-cent coins to the number of 50-cent coins Ben has is 5 : 3.
- (a) What fraction of the children's total number of coins is in 50-cent coins?
Give your answer in the simplest form.
- (b) If there were 30 fewer 10-cent coins than 50-cent coins in the children's total money, how much money would Ben have?

Ans: (a) _____ [3]

(b) _____ [2]

-End of Paper-
Please check your work carefully ☺

Setters: D. Lau
Luo Z. H.
Yeo M.





Answer Key

EXAM PAPER 2013

SCHOOL : RAFFLES GIRLS'

SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
4	4	3	1	2	1	4	3	2	2	2	3	4	3	3

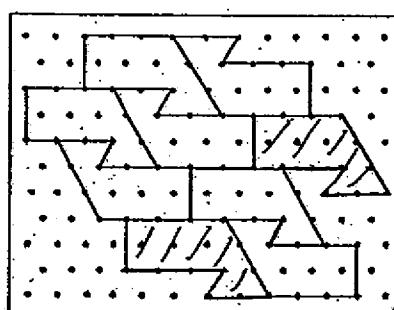
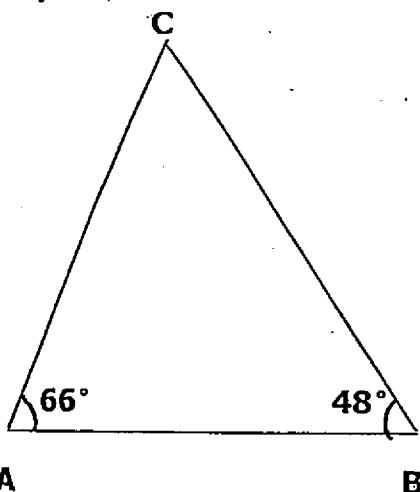
16) $\frac{7}{8}$, 0.8, $\frac{1}{4}$, 0.205 17)174.3 18) $6\frac{1}{6}$ 19) $\frac{3}{14}$ 20)2000kg

21) 155° 22) 90° 23)14.36L 24)

25)75% 26)2.835km

27) $3\frac{11}{15}$ 28)20cm 29)759kg

30)BC is 8.2cm



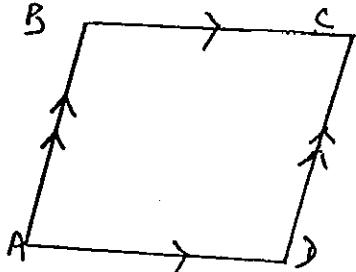
Paper 2

1) $180^\circ - 90^\circ - 59^\circ = 31^\circ$
 $180^\circ - 106^\circ - 31^\circ = 43^\circ$

2) $180^\circ - 38^\circ - 90^\circ = 52^\circ$
 $180^\circ - 52^\circ = 128^\circ$
Ans: 52°

3) 2

4)



5) $5 + 3 = 8u$
 $8u - 2u = 6u$
 $96 \rightarrow 6u$
 $1u \rightarrow 16$
 $5u \rightarrow 80\text{cm}^2$

6) $130.40 + 18.70 = 149.10$
 $3 + 3 + 1 = 7$
 $149.10 \div 7 = 21.3$
 $21.3 \times 3 = 63.9$
 $63.9 - 18.7 = \$45.20$

7) $180^\circ - 122^\circ = 58^\circ$
 $180^\circ - 58^\circ - 48^\circ = 74^\circ$
 $180^\circ - (74^\circ \times 2) = 32^\circ$

8) $65 \times 3 = 195$
 $195 - 69 = 126$
 $126 \div 7 = 18$
 $4 \times 18 = 72\text{kg}$

$$9) a) 9 + 37 + 28 = 74$$

$$146 - 74 = 72$$

$$1 \rightarrow 72 \div 3 = 24$$

$$24 + 9 = 33$$

$$b) 24 + 28 = 52$$

$$10) 25/100 \times 1120 = 280 \text{ grey}$$

$$1120 - 280 = 840 \text{ white}$$

$$100 - 30 = 70$$

$$70\% = 840$$

$$1\% = 840 \div 70 = 12$$

$$30\% = 12 \times 30 = 360$$

$$360 - 280 = 80$$

$$11) 85 \times 55 = 4675$$

$$4675 - 3875 = 800$$

$$55 - 30 = 25$$

$$800 \div 25 = 32$$

$$12) 35 \times 1.5 = 52.5$$

$$143.4 - 52.5 = 90.9$$

$$90.9 \div 0.75 = 121.2$$

$$121 \times 0.75 = 90.75$$

$$90.9 - 90.75 = 0.15 \text{ kg}$$

$$13) 2011 = 100\%$$

$$2012 = 100 + 15 = 115\%$$

$$2013 = 94/100 \times 115 = 108.1\%$$

$$108.1 - 100 = 8.1$$

$$8.1\% = 81$$

$$1\% = 81/8.1 = 10$$

$$108.1\% = 108.1 \times 10 = 1081$$

$$14) 1640 - 1280 = 360$$

$$360 \times 4 = 1440$$

$$1440 \times 5 = 7200$$

$$15) a) 50 \times 8.55 = 427.50$$

$$559.50 - 427.50 = 132$$

$$132 \div 16.50 = 8$$

$$12 - 8 = 4$$

15)b)(12)Big box \rightarrow 30 + 1u x 12 \rightarrow 12u + 360

(50)small box \rightarrow 1u x 50 = 50u

$$5/8 = 50u$$

$$1/8 \rightarrow 10u$$

$$3/8 \rightarrow 30u$$

$$30u - 12u = 18u$$

$$18u \rightarrow 360$$

$$1u \rightarrow 20$$

$$80u \rightarrow 1600$$

16)a)8B + 6C = 28590 - 20400 = 8190

$$(385 \times 8) + 8C + 6C = 8190$$

$$14C = 8190 - 3080 = 5110$$

$$1C = 5110 \div 14 = 365g.$$

b)1B = 385 + 365 = 750

$$20B = 20 \times 750 = 15000g = 15kg$$

$$\text{Box} = 20.4 - 15 = 5.4\text{kg}$$

17)2u = 228 \div 2 = 114

$$1u = 114 \div 2 = 57$$

$$5u = 57 \times 5 = 285$$

Height if tank A = 285cm

$$170 - 114 = 56$$

$$\text{Base area} = 784 \div 56 = 14\text{cm}^2$$

$$285 \times 14 = 3990\text{cm}^3$$

18)a) Ben

$$\begin{array}{r} 10c & 50c \\ \times 5 & \times 3 \\ \hline 50c & 150c \end{array}$$

$$\text{Ben} = 1u = 50 + 150 = 200$$

$$\text{Ali} = 3u = 200 \times 3 = 600$$

$$600 \div 50 = 12$$

$$12 + 3 + 5 = 20$$

$$12 + 3 = 15$$

$$15/20 = 3/4$$

18)b)10c : 50c

$$= 3 : 1$$

$$3 - 1 = 2$$

$$2u = 30$$

$$1u = 30 \div 2 = 15$$

$$5u = 15 \times 5 = 75$$

$$3u = 15 \times 3 = 45$$

$$75 \times 10c = 750c$$

$$45 \times 50c = 2250c$$

$$750 + 2250 = 3000c$$

$$= \$30$$



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form Class: P5 _____ Banded Math Class: P5 _____

Date: 11 May 2010

Duration: 50 min

Your Score (Out of 100 marks)			
Your Score (Out of 40 marks)			
		Banded Math Class	Level
PAPER 1 (40%)	Highest Score		
	Average Score		
TOTAL (100%)	Highest		
	Average Score		
Parent's Signature			

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. **NO** calculator is allowed for this paper.

SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

1. There are _____ hundreds in 470 000.

- (1) 47
- (2) 470
- (3) 4 700
- (4) 47 000

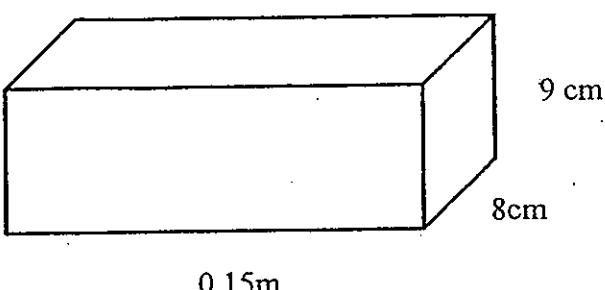
()

2. What is the product of 76×8000 ?

- (1) 608
- (2) 6 080
- (3) 60 800
- (4) 608 000

()

3. Find the volume of the cuboid shown below.



- (1) 1.08 cm^3
- (2) 10.8 cm^3
- (3) 108 cm^3
- (4) 1080 cm^3

()

4. What is the missing number in the box?

$$3\frac{3}{4} = 2\frac{\square}{8}$$

- (1) 6
- (2) 7
- (3) 14
- (4) 16

()

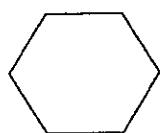
5. Express $5\frac{3}{8}$ as an improper fraction.

- (1) $\frac{16}{8}$
- (2) $\frac{29}{8}$
- (3) $\frac{43}{8}$
- (4) $\frac{53}{8}$

()

6. Which of the following figures cannot be tessellated?

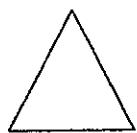
(1)



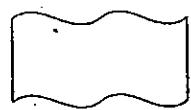
(2)



(3)



(4)



()

7. In 213.859, the digit in the hundredths place is _____.

(1) 5

(2) 2

(3) 8

(4) 9

()

8. Express 0.025 as a fraction in its simplest form.

(1) $\frac{1}{4}$

(2) $\frac{1}{5}$

(3) $\frac{1}{40}$

(4) $\frac{1}{50}$

()

9. Which of the following ratio is equivalent to 12 : 9?

(1) 2 : 3

(2) 15 : 12

(3) 24 : 21

(4) 28 : 21

()

10. Find the value of 36 012 + 847 401.

Round off your answer to the nearest hundreds.

(1) 883 000

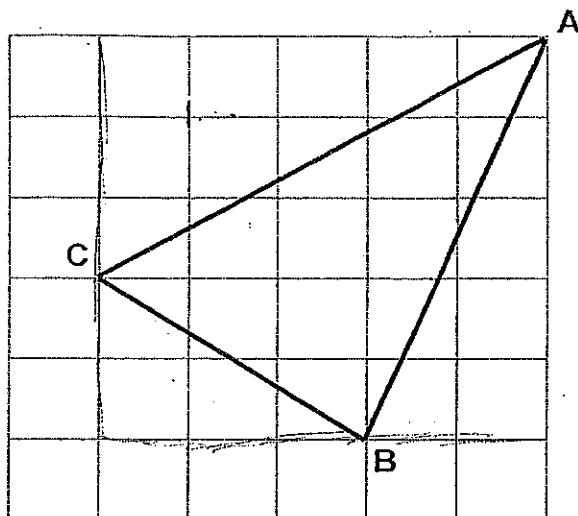
(2) 883 300

(3) 883 400

(4) 883 500

()

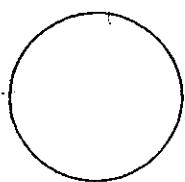
11. The triangle ABC is drawn on a 1-cm grid. Find the area of the triangle.



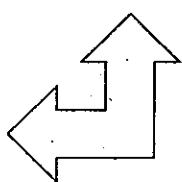
- (1) 8 cm^2
- (2) 9.5 cm^2
- (3) 12 cm^2
- (4) 15.5 cm^2

()

12. Which of the following figure(s) has/have no line of symmetry?



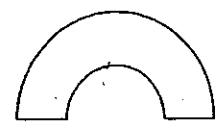
A



B



C



D

- (1) B only
- (2) C only
- (3) A and D
- (4) All of the above

()

13. Divide 24 by the sum of the first two common multiples of 2 and 4.

(1) 1

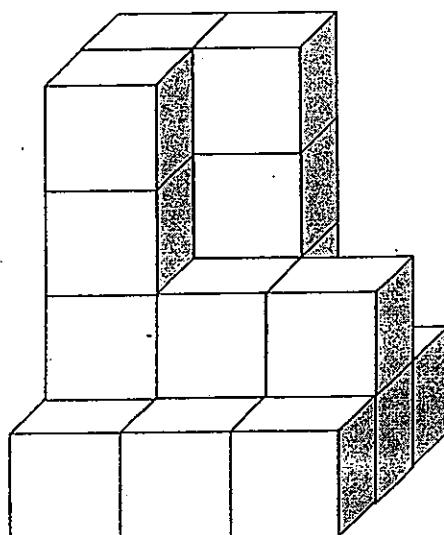
(2) 2

(3) 3

(4) 4

()

14. The solid below is made up of some identical 1-cm cubes.
What is the volume of the solid?



(1) 13 cm^3

(2) 15 cm^3

(3) 18 cm^3

(4) 20 cm^3

()

15. Devi and Ella had 85 bookmarks together.

$\frac{3}{4}$ of Devi's bookmarks was equal to $\frac{2}{3}$ of Ella's bookmarks.

How many bookmarks did Devi have?

(1) 17

(2) 40

(3) 45

(4) 51

()

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the numbers in ascending order.

626 012, 616 012, 626 120, 615 012

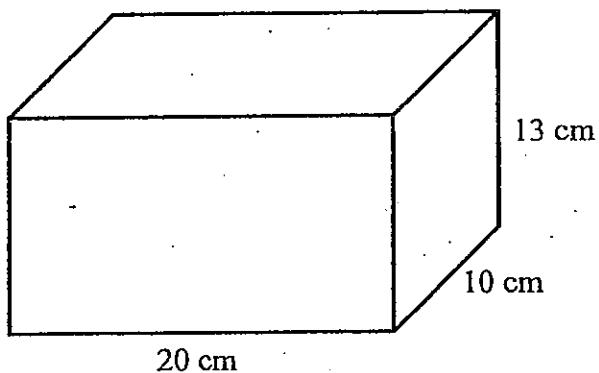
Ans: _____

17. Complete the number pattern below:

8.45, 8.2, _____, 7.7, 7.45

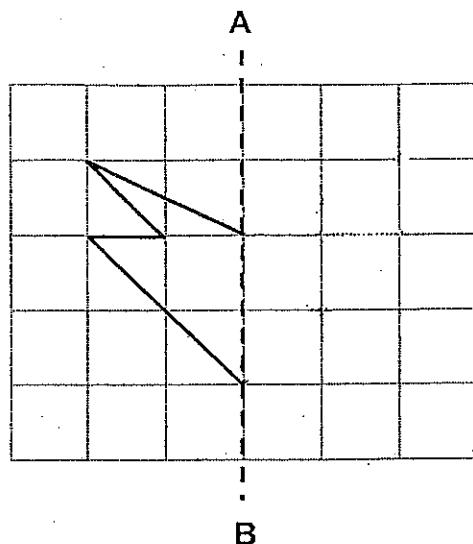
Ans: _____

18. How many 2-cm cubes can fit in the rectangular tank measuring 20 cm by 10 cm by 13 cm?

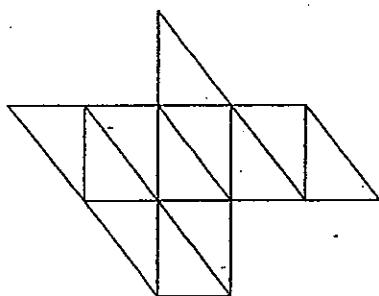


Ans: _____

19. Given that AB is a line of symmetry, complete the figure below.



20. The figure below is made up of several copies of a particular unit shape. How many unit shapes are used in the tessellation below?



Ans: _____

21. Mary baked a 2kg cake. She ate $\frac{1}{4}$ kg. How much of the cake was left?

Ans: _____ kg

22. Express $3\frac{3}{10}$ tens and 250 thousandths as a fraction in its simplest form.

Ans: _____

23. Find the value of $36.7 \div 5$.

Ans: _____

24. Round off 59.465 to the nearest whole number.

Ans: _____

25. Jack and Sally weigh a total of 64 kg.
If Sally's weight is 24 kg, what is the ratio of Sally's weight to Jack's weight?
Express your answer in its simplest form.

Ans: _____

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

26. Celina earned \$50 for every packet of dolls sold.
Each packet contained 10 dolls.
If Celina earned a total of \$4250 at the end of the month,
how many dolls did she sell?

Ans: _____

27. Solve the following.

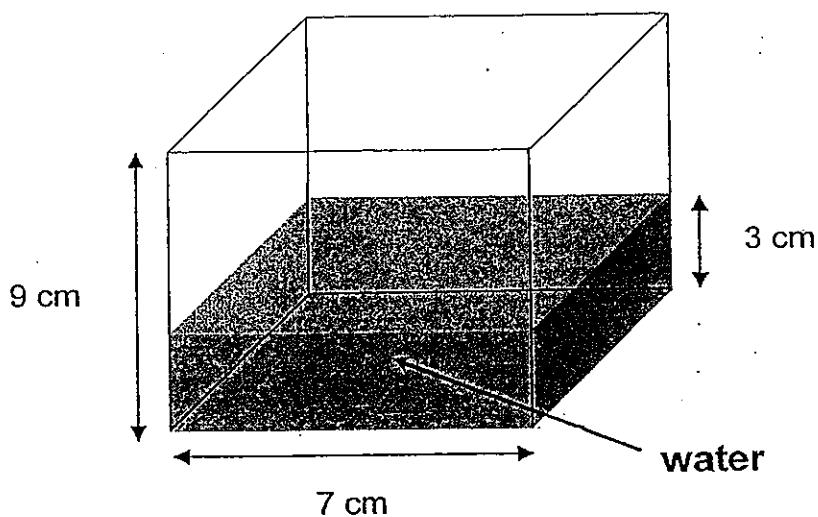
$$64 \times (3 + 5) \div 2 = 71$$

Ans: _____

28. 4 cups filled an empty pot with 292cm^3 of water.
Another 4 cups and 7 beakers of water are needed to fill up the pot completely.
If the capacity of the pot is 654 cm^3 , what is the volume of water that each
beaker can hold?

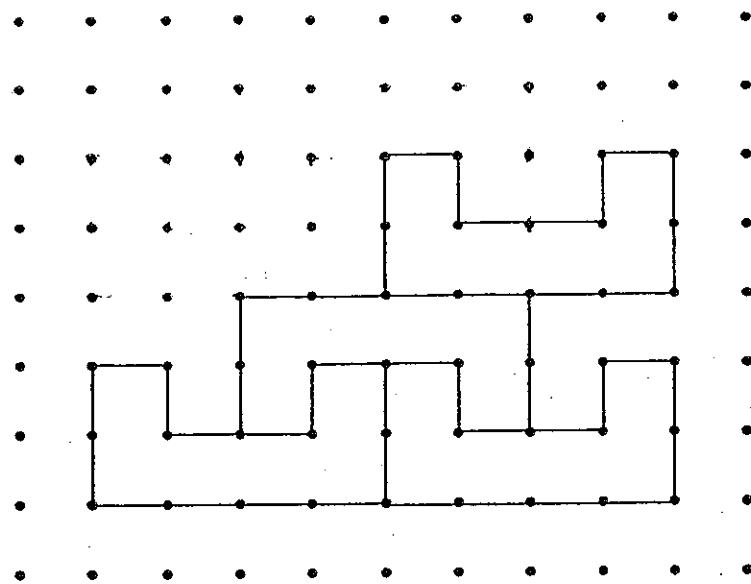
Ans: _____ cm^3

29. The volume of water in the rectangular tank is 168 cm^3 .
How much more water is needed to fill up the rectangular tank completely?



Ans: _____ cm^3

30. Extend the tessellation by drawing 2 more unit shapes.



End of Paper-
☺ Please check your work carefully ☺

Setters: Mr Desmond Lee
Mrs Jenine Soh
Miss Wai Sook Har



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Banded Math Class: P5 _____

Date: 11 May 2010

Duration: 1 h 40 min

Your Score (Out of 60 marks)			
		Banded Math Class	Level
Highest Score			
Average Score			

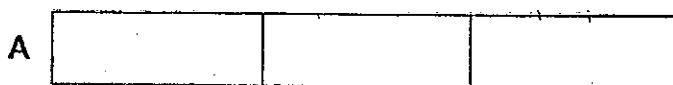
INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.
Figures are not drawn to scale.

For questions which require units, give your answers in the units stated. (10 marks)

- Given the model below, find the ratio of A to B.
Express your ratio in its simplest form.



Ans: _____ [2]

- Find the product of all the common factors of 8 and 16.

Ans: _____ [2]

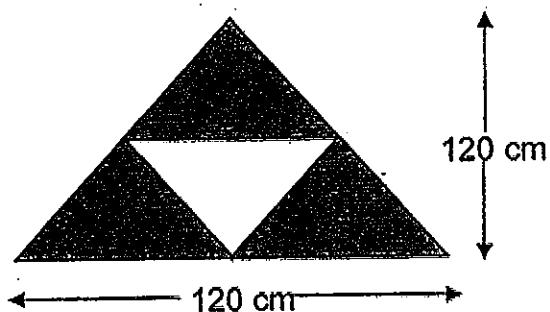
- $\frac{2}{3}$ of Mr Tan's salary is \$3360.
How much is Mr Tan's salary?

Ans: \$ _____ [2]

4. Shanna had 2750 marbles. She gave $\frac{2}{5}$ of her marbles to Tommy.
She then gave $\frac{1}{5}$ of the remainder to Umi.
How many marbles did Umi receive from Shanna?

Ans: _____ [2]

5. The figure is made up of 4 identical triangles. Find the total shaded area.



Ans: _____ cm^2 [2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

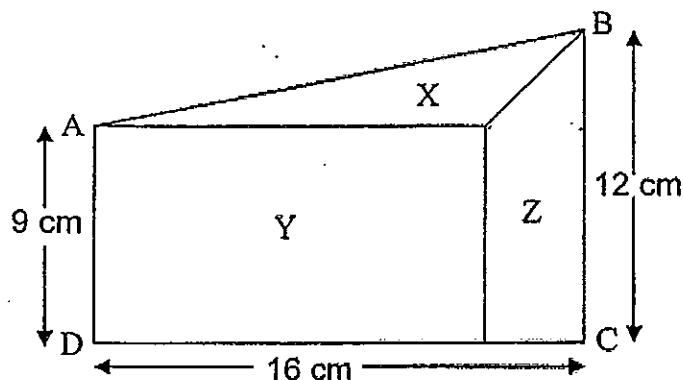
6. A rectangular container has a base area of 143 cm^2 .
It is filled with water to a depth of 5 cm.
Another 858 cm^3 of water is added to the container to fill it up completely.
What is the height of the container?

Ans: _____ [3]

7. The ratio of the mass of chicken to the mass of fish was 3 : 5.
16 kg of fish was sold to customers.
After that, the ratio of the mass of chicken to the mass of the fish was 7 : 9.
Find the mass of the fish at first.

Ans: _____ [3]

- 8: ABCD is a trapezium which is made up of a triangle, a rectangle and a trapezium, X, Y and Z respectively. Find the area of ABCD.



Ans: _____ [3]

9. Three different coloured sweets were given out at a party.
The number of red sweets was thrice the number of yellow sweets.
The number of blue sweets was 39 more than half the number of yellow sweets.
If there were 118 more yellow sweets than blue sweets, how many sweets
were given out altogether?

Ans: _____ [4]

10. Beaker A and Beaker B contained 9ℓ of water altogether at first.

Jamie poured $\frac{1}{3}$ of the water from Beaker A to Beaker B.

Next, she poured $\frac{3}{8}$ of the water from Beaker B to Beaker A.

She then had the same volume of water in the ~~2~~ beakers.

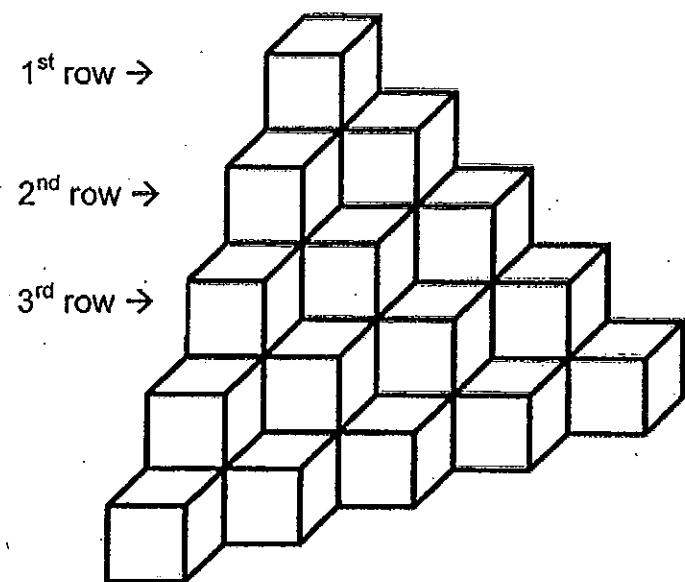
How much water was there in each beaker at first?

Express your answers in ml .

Ans: Beaker A _____ [2]

Beaker B _____ [2]

11. The figure shown below is made up of 2-cm cubes.
What is the volume of the total number of cubes in the 17th row?

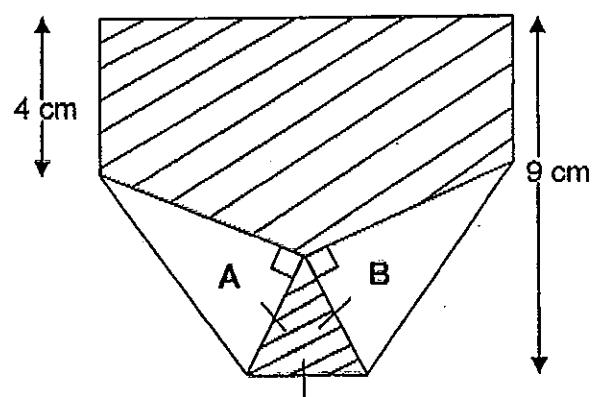


Ans: _____ [3]

12. Mr Soh travelled $\frac{1}{6}$ of a journey by MRT and $\frac{1}{2}$ of the remaining journey by bus. He was then 750 m away from his destination.
What was the distance of the whole journey?

Ans: _____ [3]

13. During the Art and Craft lesson, Judy folds two corners of a piece of square paper as shown below before shading the paper. Triangle A and Triangle B are identical. Find the total area of the shaded part.



Ans: _____ [4]

14. Miss Lim bought beads just enough to distribute to the members of the Art Club. Each member would receive 10 beads. However, when 15 more members joined the club, each member could only receive 7 beads, with 60 beads remaining. How many members were there in the Art Club at first?

Ans: _____ [4]

15. A container of red dye weighs 2.27 kg when it is $\frac{1}{3}$ full. Another identical container of red dye weighs 4.8 kg when it is $\frac{6}{7}$ full. What is the weight of the empty container?

Ans: _____ 4]

16. Becca received some money for her birthday and decided to go shopping. If she bought 6 pairs of shoes, she would be short of \$9. If she used the same amount of money to buy 3 similar pairs of shoes and 2 similar bags, she would be left with \$16. Each bag cost \$76. How much money did Becca receive for her birthday?

Ans: _____ [5]

17. John had 993 tables and chairs at first.

After he sold $\frac{2}{5}$ of the tables and $\frac{5}{8}$ of the chairs, he had 459 tables and chairs left. How many tables did he sell?

Ans: _____ [5]

18. Catherine, Mindy and Shawn shared some beads in the ratio of 3 : 4 : 5 respectively.

During a game, Mindy lost $\frac{1}{3}$ of her beads to Catherine and won $\frac{2}{5}$ of Shawn's.

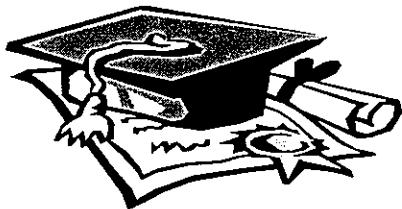
- (a) What is the ratio of Mindy's beads to Shawn's beads now?
(b) How many beads does Catherine have now if they have a total of 252 beads?

Ans: (a) _____ [3]

(b) _____ [2]

-End of Paper-
Please check your work carefully

Setters: Mr Desmond Lee
Mrs Jenine Soh
Miss Wai Sook Har

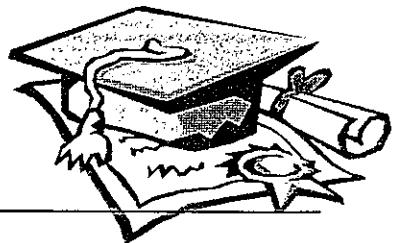


ANSWER SHEET

EXAM PAPER 2010

**SCHOOL : RAFFLES GIRLS' PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS**

TERM : SA1



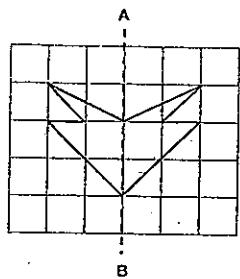
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	4	2	3	3	2	1	3	4	3	2	2	2	4	2

16) 615012, 616012, 626012, 626120

17) 7.95

18) 300

19)



20) 12

21) $1\frac{3}{4}$

22) $30\frac{1}{4}$

23) 7.34

24) 59

25) 3:5

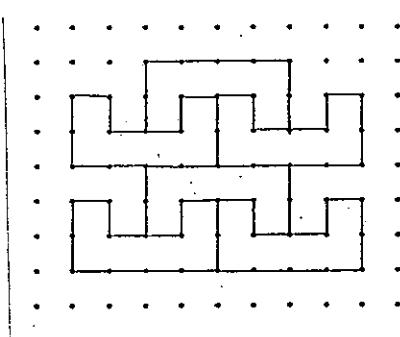
26) 850

27) 185

28) 10cm^3

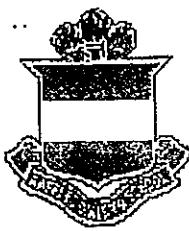
29) 336cm^3

30)



Paper 2

1) 3:2	2) 64
3) \$5040	4) $2750 \div 5 = 550$ $550 \times 3 = 1650$ $1650 \div 5 = 330$
5) $\frac{1}{2} \times b \times h$ $= \frac{1}{2} \times 120 \times 120 = \frac{1}{2} \times 14400$ $= 7200$ $7200 \div 4 = 1800$ $1800 \times 3 = 5400 \text{cm}^2$	6) $143 \times 5 = 715$ $715 + 858 = 1573$ $1573 \div 143 = 11$ The height is 11cm
7) $5u = ?$ $35 - 27 = 8$ $8u \rightarrow 112$ $1u \rightarrow 112 \div 8 = 14$ $14 \times 5 = 70$ The mass of the fish was 70kg at first.	8) $16 \times 9 = 144$ $12 - 9 = 3$ $\frac{1}{2} \times b \times h$ $= \frac{1}{2} \times 3 \times 16 = 24$ $24 + 144 = 168$ The area is 168cm²
9) $118 + 39 = 157$ $157 \times 9 = 1413$ $1413 + 39 = 1452$ 1452 sweets were given out altogether.	10) a) 2700ml b) 7200ml
11) The volume is 1224cm ³	12) $750 \div 5 = 150$ $150 \times 12 = 1800$ The distance is 1800m
13) $9 \div 3 = 3$ $9 - 4 = 5$ $\frac{1}{2} \times b \times h = \frac{1}{2} \times 3 \times 5 = \frac{1}{2} \times 15$ $= 7.5$ $7.5 \times 4 = 30$ $9 \times 9 = 81$ $81 - 30 = 51$ The area of the shaded part is 51cm²	14) $15 \times 7 = 105$ $105 + 60 = 165$ $10 - 7 = 3$ $165 \div 3 = 55$
15) 0.66kg	16) \$345
17) 231	18) a) 14:9 b) 91



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 1)
PRIMARY 5**

Name: _____ ()

Form Class: P5 _____ Banded Math Class: P5 _____

Date: 27 October 2010

Duration: 50 min

Your Score (Out of 100 marks)			
Your Score (Out of 40 marks)			
		Banded Math Class	Level
PAPER 1 (40%)	Highest Score		
	Average Score		
TOTAL (100%)	Highest		
	Average Score		
Parent's Signature			

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer ALL questions and show all working clearly.
4. NO calculator is allowed for this paper.

SECTION A (20 marks)

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale.

1. Which of the following is the best estimate for 42.56×6.45 ?

- (1) 42×6
- (2) 42×7
- (3) 43×6
- (4) 43×7

()

2.

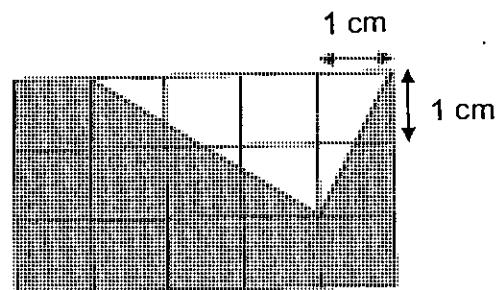
$$4 \frac{2}{3} = 3 \frac{\square}{3}$$

What is the missing number in the \square above?

- (1) 5
- (2) 2
- (3) 3
- (4) 4

()

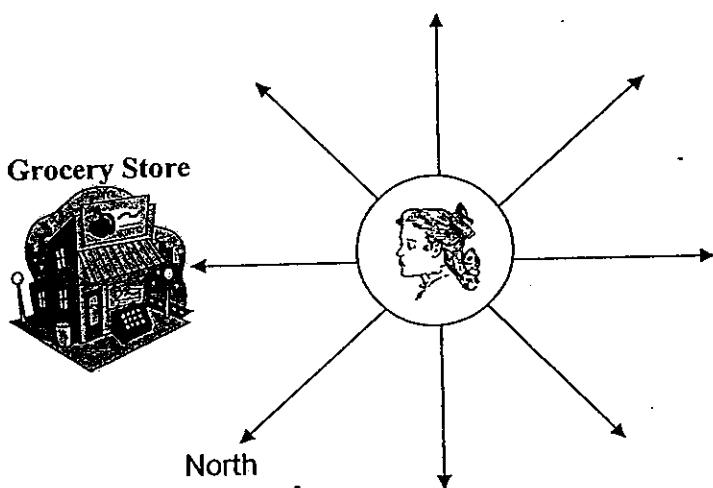
3. Find the area of the shaded figure.



- (1) 4 cm^2
- (2) 5 cm^2
- (3) 11 cm^2
- (4) 14 cm^2

()

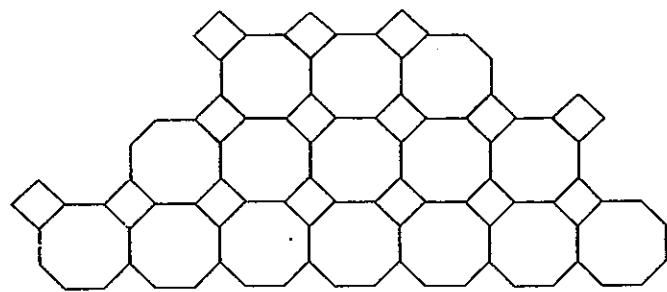
4. After turning clockwise 135° , Jennifer is facing the grocery store now. Which direction was she facing at first?



- (1) South
- (2) West
- (3) South-West
- (4) North-East

()

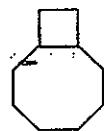
5. What is the unit shape used in the tessellation below?



(1)



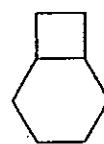
(2)



(3)



(4)



()

6. 330 pupils went on an excursion. Each teacher can look after a maximum of 20 pupils. What is the least number of teachers required for the excursion?

- (1) 16
- (2) 16.5
- (3) 17
- (4) 17.5

()

7. Sally bought a book for \$24 at a 25% discount. What was the usual price of the book?

- (1) \$6
- (2) \$18
- (3) \$32
- (4) \$49

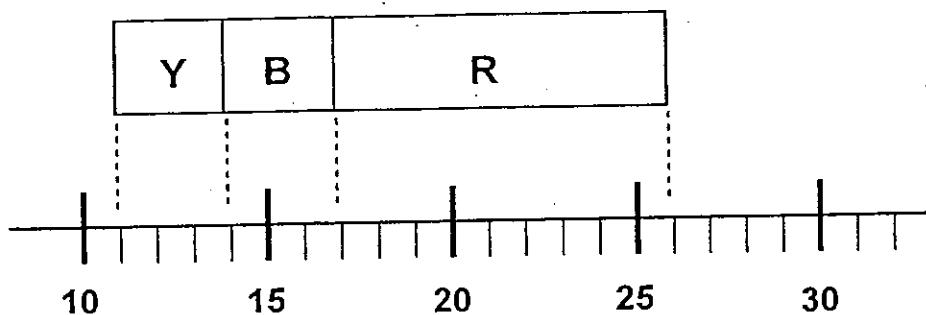
()

8. Express $7\frac{19}{25}$ as a decimal.

- (1) 7.076
- (2) 7.706
- (3) 7.76
- (4) 7.95

()

9. A piece of paper strip was coloured into 3 sections: Yellow (Y), Blue (B) and Red (R) as shown below.



What is the ratio of the length of the yellow section to the length of the blue section to the length of the red section?

- (1) 1 : 1 : 3
- (2) 2 : 2 : 5
- (3) 3 : 1 : 1
- (4) 5 : 2 : 2

()

10. Mrs Tan bought a bag of potatoes daily for 1 week.
The average cost of each bag of potatoes was \$2.50.
What was the total amount she paid for the potatoes in that week?

- (1) \$2.50
- (2) \$10.00
- (3) \$17.50
- (4) \$25.00

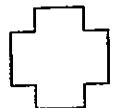
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11. Which of the following figure has no line(s) of symmetry?

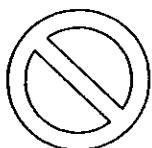
(1)



(2)



(3)



(4)



()

12. Mrs Huang needs $1\frac{2}{3}$ m of cloth to make a dress.
How much cloth does she need to make 8 such dresses?

(1) 13 m

(2) $13\frac{1}{3}$ m

(3) $13\frac{2}{3}$ m

(4) 14 m

()

13. A piece of square paper was cut along the dotted line as shown in Figure A to get four smaller pieces (W, X, Y, Z) of paper as shown in Figure B.

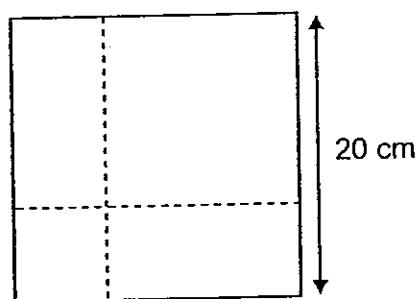


Figure A

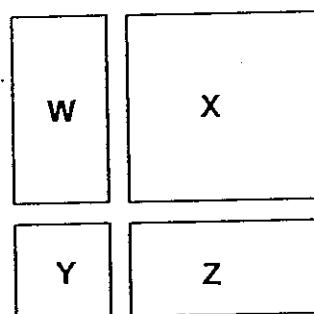


Figure B

Find the total perimeter of rectangle W, X, Y and Z.

- (1) 80 cm
- (2) 120 cm
- (3) 160 cm
- (4) 200 cm

()

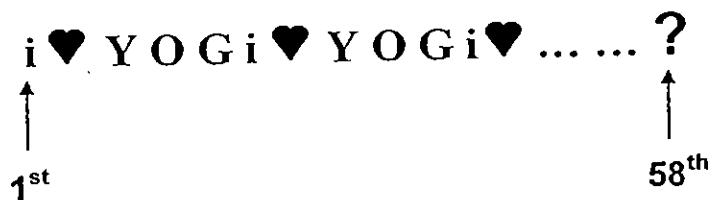
14. What is the missing number in the box below?

$$\boxed{\quad} : 16 = 35 : 40$$

- (1) 7
- (2) 8
- (3) 11
- (4) 14

()

15. Faridah used the letters and shape to form a pattern as shown below.



What would appear at the 58th position?

- (1) ♥
 - (2) Y
 - (3) O
 - (4) G
- ()

SECTION B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale unless otherwise stated. Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following in descending order.

$$0.805, \frac{1}{4}, 0.128, \frac{4}{5}$$

Ans: _____

17. Find the value of $27 \times (8.37 + 1.63)$.

Ans: _____

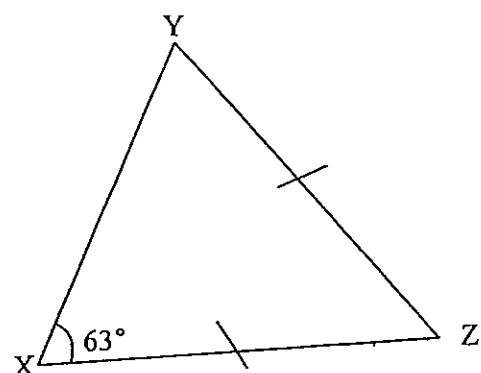
18. Before Grace started cooking dinner, she had $1\frac{1}{8}\ell$ of oil.

After she had finished cooking, she had $\frac{3}{4}\ell$ of oil left.

How many litres of oil did Grace use for cooking?

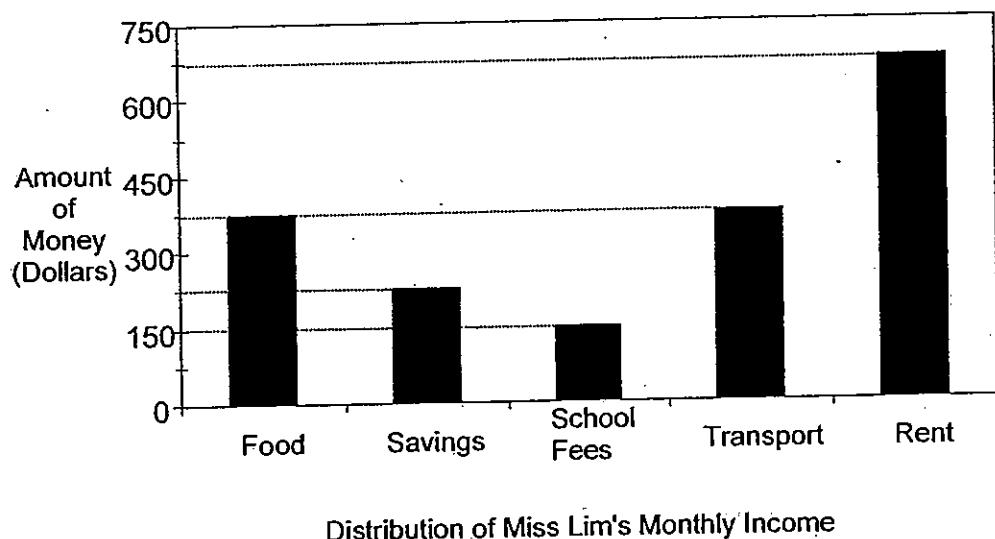
Ans: _____ ℓ

19. Triangle XYZ is an isosceles triangle.
Find $\angle XZY$.



Ans: _____

20. The graph below shows how Miss Lim allocated her monthly income.



What was her total spending monthly?

Ans : \$ _____

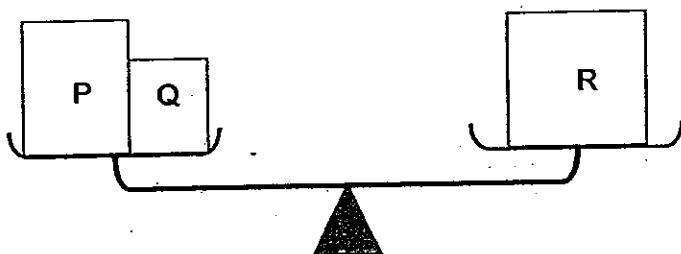
21. Express 0.028 as a fraction.

Ans: _____

22. A book is sold at \$50 without 7% G.S.T.
How much is the G.S.T of this book?

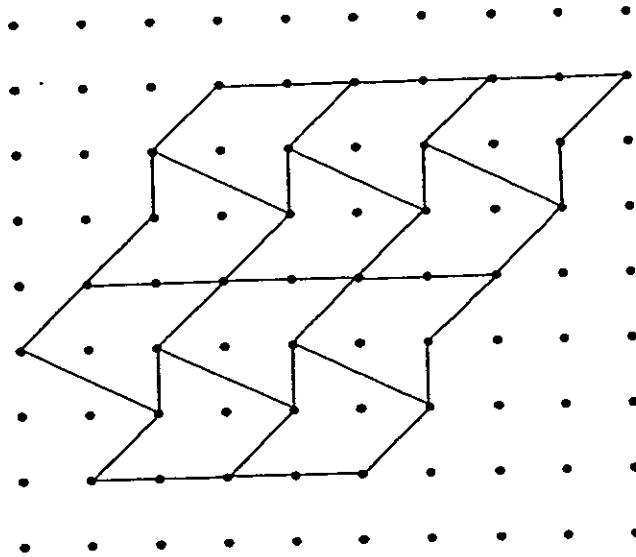
Ans: \$ _____

23. The figure below shows three boxes, P, Q and R on a balance scale.
Given that the average mass of Boxes P and Q is 15 kg , find the average mass
of the 3 boxes.

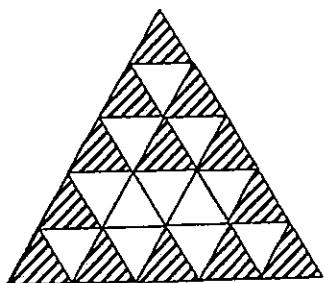


Ans: _____ kg

24. The pattern in the box shows a tessellation using a unit shape. Extend the tessellation by drawing two more unit shapes in the space provided in the box.



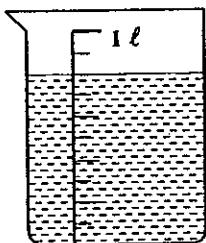
25. What percentage of the figure shown below is shaded?



Ans: _____ %

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale unless otherwise stated. Answers in fractions or ratio must be expressed in the simplest form.

26. The figure below shows a container of water



- (a) What is the amount of water in it?
(b) Susan pours all the water from the container above equally into 5 glasses.
What is the amount of water in each glass?

Ans: (a) _____ ml

(b) _____ ml

- 27 Mr Beesi has $\frac{11}{12}$ h to play with his two children. If he wants to spend an equal amount of time alone with each child, how much time does he spend with each of them?

Ans: _____ h

17. Boon Keng had two wooden planks of the same length. He cut one wooden plank into equal parts of length 80 cm and each part he pasted 4 circular stickers as in Figure A.

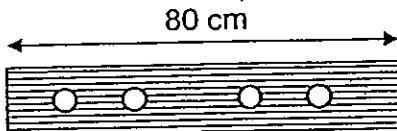


Figure A

After that, he cut the other wooden plank into equal parts of length 1.4 m and each part he pasted 9 triangular stickers as in Figure B.

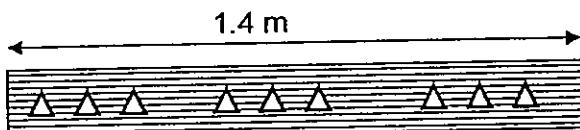


Figure B

When he finished pasting, he counted that there were 136 more triangular stickers than circular stickers.

- (a) Express the length of the wooden plank in Figure B in cm.
- (b) How many stickers did Boon Keng paste altogether?

Ans: (a) _____ [1]

(b) _____ [4]

18. At an international school, 40% of the students are Asians, 90% of the remainder are Europeans and the rest are Americans.
There are 56 more Europeans than Asians.
After some Asians left the school, 20% of the remaining students are Asians.
How many Asians are there left at the international school?

Ans: _____ [5]

-End of Paper-
Please check your work carefully ☺

Setters: Mr Desmond Lee
Mr Ronald Lee
Mrs Jenine Soh



**RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
MATHEMATICS (PAPER 2)
PRIMARY 5**

Name: _____ ()

Form class: P5 _____ Banded Math Class: P5 _____

Date: 27 October 2010

Duration: 1 h 40 min

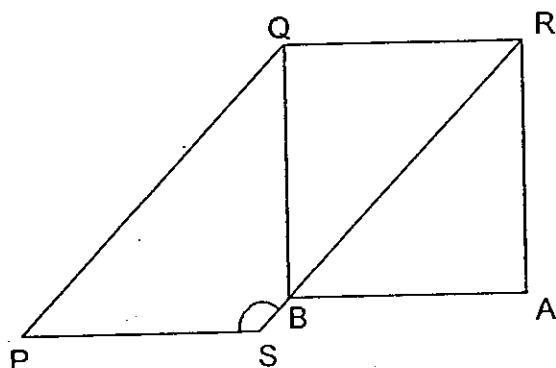
Your Score (Out of 60 marks)		
	Banded Math Class	Level
Highest Score		
Average Score		

INSTRUCTIONS TO CANDIDATES

5. Do not turn over this page until you are told to do so.
6. Follow all instructions carefully.
7. Answer **ALL** questions and show all working clearly.
8. The use of calculator is allowed for this paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale unless otherwise stated. (10 marks)

1. In the diagram below, PQRS is a parallelogram.
QRAB is a square. SBR is a straight line.
Find $\angle PSR$.



Ans: _____ ° [2]

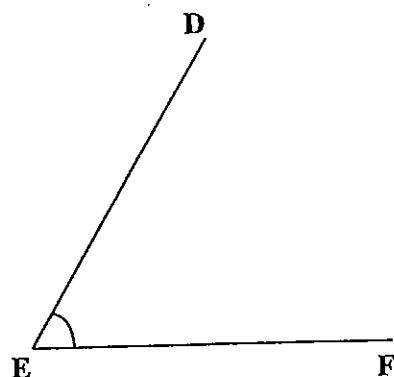
2. 2 groups of tourists visited a museum.
One group with eight children and four adults paid \$160.
The other group with two children and four adults paid \$100.
What is the cost of entry for a child?

Ans: \$ _____ [2]

3. Line DE and EF are 2 sides of a rhombus.

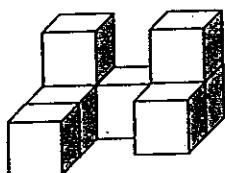
(a) Measure and write down the size of $\angle DEF$.

(b) Complete the figure by drawing the other 2 sides of the rhombus. [1]



Ans: (a) _____ ° [1]

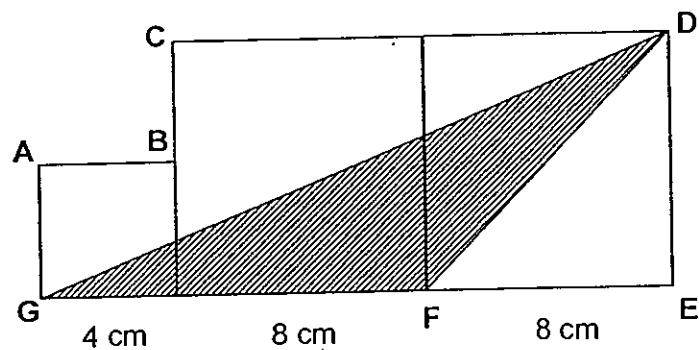
4. The figure below is made up of some 1-cm cubes.



What is the **minimum** number of 1-cm cubes that need to be added to the figure above to form a bigger cube?

Ans: _____ [2]

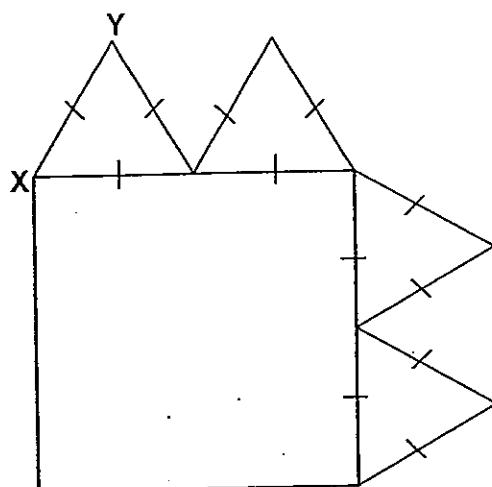
5. The figure ABCDEFG below is made up of 3 squares of sides, 4cm, 8cm and 8cm respectively. Find the shaded area GDF.



Ans: _____ [2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. All diagrams are not drawn to scale unless otherwise stated.
The number of marks available is shown in the brackets [] at the end of each question or part-question. **(50 marks)**

6. Brenda used a piece of wire to form the figure below and was left with 46 cm after that.

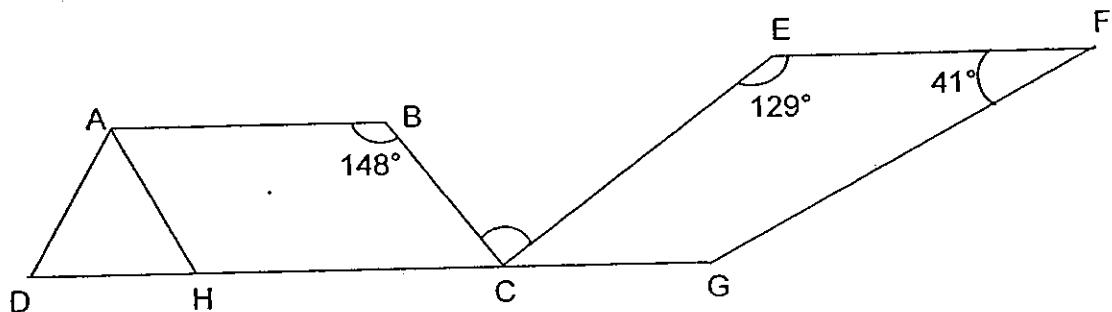


- (a) Given that the piece of wire was 3.1m long, how much wire had Brenda used to form the figure above?
- (b) Find the length of line XY.

Ans: (a) _____ [1]

(b) _____ [2]

7. In the diagram below, ABCD and CEFG are trapeziums, and ADH is an equilateral triangle.
 $\angle CEF$ is 129° , $\angle ABC$ is 148° , $\angle EFG$ is 41° and DHCG is a straight line.
Find $\angle BCE$.



Ans: _____ [3]

8. The average height of 5 girls is 165 cm.
The average height of 5 boys is 170 cm.
What is the average height of these 10 children?

Ans: _____ [3]

9. In the Art Club last year, 40% of the members were boys. After 45 girls left the Art Club this year, the ratio of the number of boys to the number of girls in the club became 4 : 3.
- (a) How many members were in the Art Club last year?
- (b) How many more girls must join the club this year so that there is an equal number of boys and girls in the Art Club this year?

Ans: (a) _____ [3]

Ans: (b) _____ [1]

10. Andy wanted to set-up an aquarium with an empty rectangular glass tank that his father had bought him. The base area of the tank was 3600 cm^2 . Andy was able to fill the tank with 3ℓ of water every one minute.
- (a) How long would it take the water to reach a depth of 10 cm?
- (b) If it took 60 minutes to fill the whole tank, find the height of the tank.

Ans: (a) _____ [2]

(b) _____ [1]

11. Study the conversation below between Mr Lim and the salesman at the toy section of the department store.

Mr Lim : How much do 7 toy boats and 6 toy planes cost?

Salesman : They cost a total of \$52.50.

Mr Lim : That is above my budget.
How about 6 toy planes and 5 toy trains?

Salesman : They are cheaper. They cost only \$43.50

If a toy train costs as much as a toy boat, how much does a toy plane cost?

Ans: _____ [3]

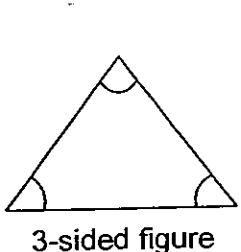
12. Mr Chua gave $\frac{7}{13}$ of his salary to his parents and used $\frac{1}{4}$ of the remaining amount to pay his handphone bill. Then he spent $\frac{2}{3}$ of the money he had left on food and saved the rest.

- (a) How much did Mr Chua spent on his handphone bill and food if he saved \$319.50.
- (b) How much was Mr Chua's salary?

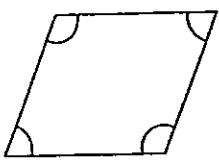
Ans: (a) _____ [2]

(b) _____ [2]

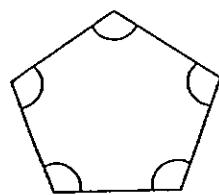
13. The angles inside a figure are called interior angles. Below are four figures with their interior angles marked.



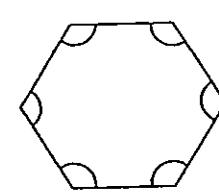
3-sided figure



4-sided figure



5-sided figure



6-sided figure

- a) Observe the pattern in the table below.

What is the sum of interior angles for a 7-sided figure and 8-sided figure respectively? Write your answers in the table below.

Total number of sides of the figure	Sum of interior angles
3	180°
4	360°
5	540°
6	720°
7	(i)
8	(ii)

- b) What is the sum of interior angles for a 59-sided figure?

Ans: (b) _____ [2]

14. A florist sold twice as many roses as tulips and collected \$400 in total.
She collected \$80 more on the tulips than the roses.
Given that a tulip costs \$2 more than a rose, find the cost of a rose.

Ans: _____ [4]

15. George had to deliver 70 gift packs.
He was paid \$1.60 for every gift pack delivered and was charged \$8.65 for
damaging one.
After delivering all the gift packs, he was paid \$50.50.
How many gift packs did he damage?

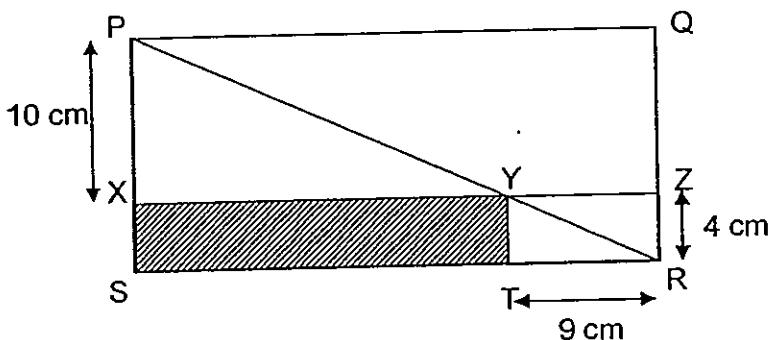
Ans: _____ [4]

16. Mr Lim wants to buy some boxes of chocolates which are sold in boxes of 10 and 24. Each box of 10 pieces is sold for \$5.35 and each box of 24 pieces is sold for \$12.50.
Mr Lim and his class of 37 pupils will be given 2 pieces of chocolates each.
- (a) How many boxes of each type of chocolates should Mr Lim buy so that the number of pieces of chocolates left over is the least?
- (b) How much will Mr Lim pay for the chocolates?

Ans: (a) _____ box(es) of 10 and _____ box(es) of 24 [4]

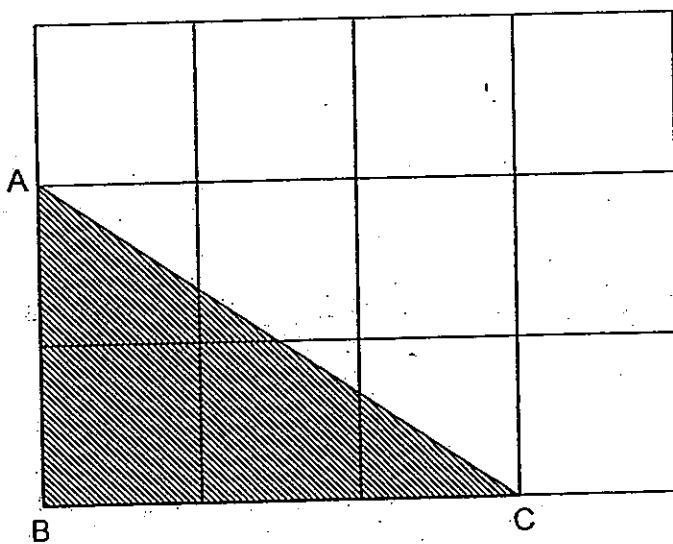
(b) _____ [1]

- 28 The figure below showed a rectangle PQRS.
PYR is a straight line, and XYZ is parallel to STR.
 $PX = 10 \text{ cm}$, $TR = 9 \text{ cm}$ and $ZR = 4 \text{ cm}$.
Find the shaded area of rectangle XYTS.

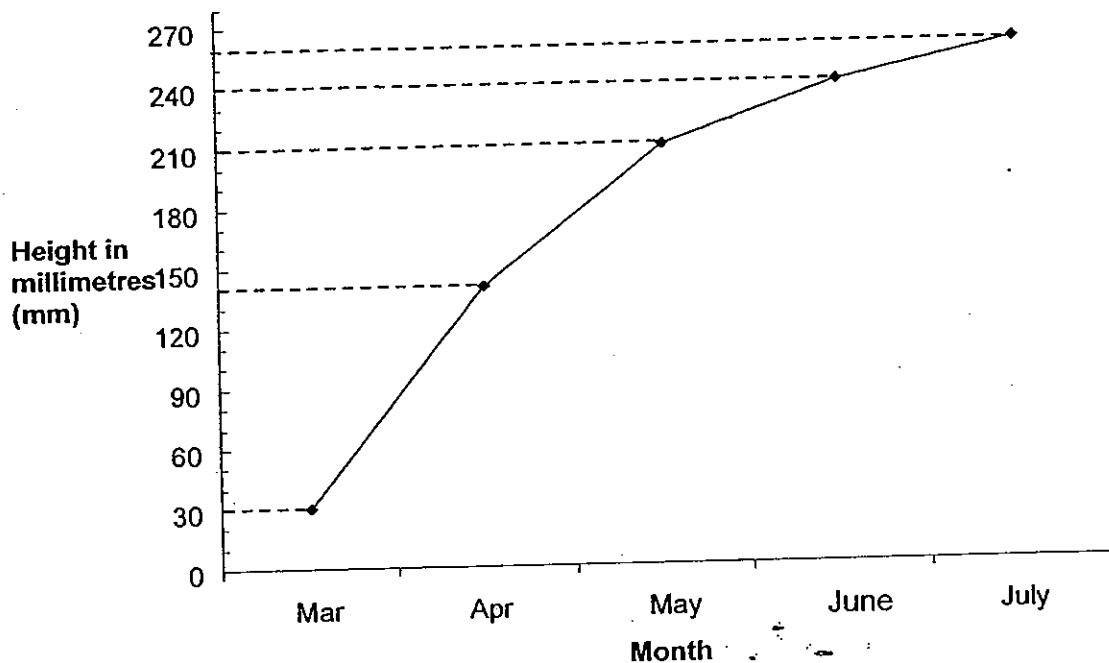


Ans: _____ cm^2

29. The diagram below shows a shaded triangle ABC within the square grids.
Using BC as the base, draw another triangle within the grid that has the same area as triangle ABC and has one angle that is larger than 90° .



30. The height of Plant X was measured on every first day of the month for 5 months.
The line graph below shows the growth of Plant X in terms of its height.



- (a) Which one-month period was the growth of Plant X the greatest?
(b) From 1st April to 1st June, what was the average growth in millimetres per day? Express your answer as a fraction. (Assume each month has 30 days)

Ans: (a) From 1st _____ to 1st _____

(b) _____ mm

End of Paper-
☺ Please check your work carefully ☺

Setters: Mr Desmond Lee
Mr Ronald Lee
Mrs Jenine Soh

ANSWER SHEET

EXAM PAPER 2010

**SCHOOL : RAFFLES GIRLS' PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS**

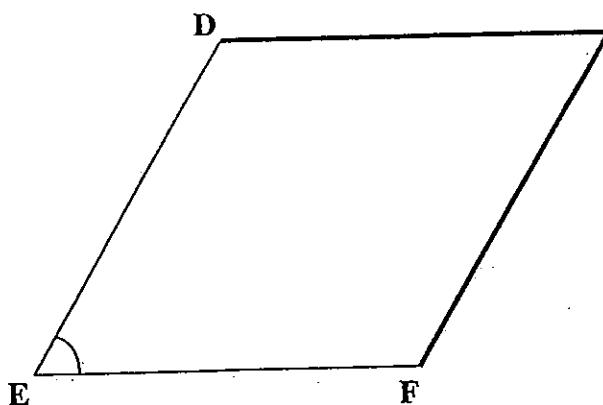
TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	1	3	2	2	3	3	3	1	3	4	2	3	4	2

RGPS 2010 PS5 Mathematics SA2 (Paper 2)

For Question 1 to 5:

Correct Method and Correct Answer	2 marks
Correct Answer with no working	2 marks
Correct Method but Wrong Answer	Award M1 accordingly
Correct Answer but Wrong Method	0 mark

1.	$90^\circ \div 2 = 45^\circ$ $180^\circ - 45^\circ = \underline{135^\circ}$	--- M1, A1
2.	$8C + 4A \rightarrow 160$ $2C + 4A \rightarrow 100$ $6C \rightarrow \$60$ $1C \rightarrow \$60 \div 6$ $= \$\underline{10}$	[M1, A1]
3.	(a) $60^\circ \pm 1^\circ$ (b) 	
4.	$27 - 8 = 19$ [M1, A1]	
5.	shaded area $\rightarrow (12 \times 8) \div 2 = 48 \text{ cm}^2$	[M1, A1]

For Question 6 to 18

Marking Scheme

For all questions:

- Award A1 for correct answer with no method shown.
- Award A mark for clear transfer error to answer space by pupil. Indicate on the answer script "transfer error".
- Award M mark(s) according for correct method or followed-through computation error with wrong answer. Indicate the M mark(s) on the answer script accordingly.
- No marks will be awarded for correct answer with wrong method. Indicate on the answer script "wrong method".
- Deduct 1 mark from the total M mark(s) awarded if there is a *misread per question. No A mark will be awarded for this case. (*misread: clear numerical transfer error from the question to the working statement)
- Deduct a maximum $\frac{1}{2}$ mark per question for incorrect or missing required unit in final answer.
- Deduct a maximum of $\frac{1}{2}$ mark per question for incorrect use of mathematical signs such as = or \approx .

For 4-mark and 5-mark questions:

- Deduct a maximum of $\frac{1}{2}$ mark per question if there is an incorrect mathematical statement at the "M mark(s) awarded" step

6. (a) 264 cm or any equivalent [A1]
(b) $264 \div 16 = 16.5$ cm or any equivalent [M1, A1]

7. $\angle BCD = 180^\circ - 148^\circ = 32^\circ$ } M1
 $\angle ECG = 180^\circ - 129^\circ = 51^\circ$ }
 $\angle BCE = 180^\circ - 51^\circ - 32^\circ = 97^\circ$ M1, A1

OR

$$\begin{aligned}\angle BCD &= 180^\circ - 148^\circ = 32^\circ \\ \angle BCE &= 129^\circ - 32^\circ = 97^\circ \text{ M2, A1 (Alternate angles)}\end{aligned}$$

OR

$$\begin{aligned}\angle ECG &= 180^\circ - 129^\circ = 51^\circ \\ \angle BCE &= 148^\circ - 51^\circ = 97^\circ \text{ M2, A1 (Alternate angles)}\end{aligned}$$

8.	$165 \times 5 = 825$ $170 \times 5 = 850$ $5 + 5 = 10$ $825 + 850 = 1675$ $1675 \div 10 = \underline{167.5 \text{ cm}}$ [M1] [M1, A1]				
9.	<p>(a)</p> <p>Last year: This year: (45 girls left)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">B: G 2 : 3</td> <td style="width: 50%;">B:G 4 : 3</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-top: 10px;">4 : 6</td> </tr> </table> <p>3 units \rightarrow 45 1 unit \rightarrow $45 \div 3 = 15$ [M1] 10 units \rightarrow $15 \times 10 = 150$ [M1,A1]</p> <p>(b) 15 (1 unit) [A1]</p>	B: G 2 : 3	B:G 4 : 3	4 : 6	
B: G 2 : 3	B:G 4 : 3				
4 : 6					

10.	<p>(a) $3600 \text{ cm}^2 \times 10 \text{ cm} = 36000 \text{ cm}^3$ time taken to reach 10 cm $\rightarrow 36000 \text{ cm}^3 \div 3000 \text{ ml} = \underline{12 \text{ minutes}}$ [M1,A1]</p> <p>(b) 60 minutes $\rightarrow 10 \text{ cm} \times 5 = \underline{50 \text{ cm}}$ [A1]</p>												
11.	$7B + 6P = 52.50$ $6P + 5T = 43.50$ Since cost of 1T = cost of 1B, $7u - 5u = 2u$ $2u \rightarrow 52.50 - 43.50 = 9$ (price of 2 toy boats) $1u \rightarrow 4.50$ [M1] <table style="margin-top: 20px; width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">$4.50 \times 5 = 22.50$</td> <td style="width: 33%; text-align: center;">OR</td> <td style="width: 33%;">$4.50 \times 7 = 31.50$</td> </tr> <tr> <td>$43.50 - 22.50 = 21$</td> <td style="text-align: center;">OR</td> <td>$52.50 - 31.50 = 21$</td> </tr> <tr> <td>$6u \rightarrow \\$ 21$</td> <td></td> <td style="text-align: right;">$\rule{1cm}{0.4pt}$ M1</td> </tr> <tr> <td>$1u \rightarrow \\$ 3.50$</td> <td></td> <td style="text-align: right;">$\rule{1cm}{0.4pt}$ A1</td> </tr> </table>	$4.50 \times 5 = 22.50$	OR	$4.50 \times 7 = 31.50$	$43.50 - 22.50 = 21$	OR	$52.50 - 31.50 = 21$	$6u \rightarrow \$ 21$		$\rule{1cm}{0.4pt}$ M1	$1u \rightarrow \$ 3.50$		$\rule{1cm}{0.4pt}$ A1
$4.50 \times 5 = 22.50$	OR	$4.50 \times 7 = 31.50$											
$43.50 - 22.50 = 21$	OR	$52.50 - 31.50 = 21$											
$6u \rightarrow \$ 21$		$\rule{1cm}{0.4pt}$ M1											
$1u \rightarrow \$ 3.50$		$\rule{1cm}{0.4pt}$ A1											

12.	<p>(a)</p> <p>1 unit of the remainder $\rightarrow \\$319.50$ 3 units of the remainder $\rightarrow \\$319.50 \times 3 = \\958.50 [M1, A1]</p> <p>(b)</p> <p>$\frac{6}{13}$ of the total $\rightarrow \\$1278$ ($319.50 + 958.50$)</p> <p>$\frac{1}{13}$ of the total $\rightarrow \\$1278 \div 6 = \\213 [M1]</p> <p>$\frac{13}{13}$ of the total $\rightarrow \\$213 \times 13 = \\2769 [A1]</p>
-----	--

13.	<p>(a) i) 900° [A1], ii) 1080° [A1]</p> <p>(b) $57 \times 180^\circ = 10260^\circ$ [M1, A1]</p>
14.	<p>Roses $\rightarrow (\\$400 - \\$80) \div 2 = \\$160$ Tulips $\rightarrow \\$400 - \\$160 = \\$240$ [M1]</p> <p>2 units of roses $= \\$160$ 1 unit of tulips $= \\$240$</p> <p>Difference between 1 unit of roses and 1 unit of tulips $= \\$240 - \\80 $= \\$160$ [M1]</p> <p>No. of flowers in 1 unit $= \\$160 \div \\2 $= 80$ [M1]</p> <p>Cost of 1 rose $= \\$80 \div 80$ $= \\$1$ [A1]</p>

15. $1.60 \times 70 = 112$
 $112 - 50.50 = 61.50$
 $1.60 + 8.65 = 10.25$
 $61.50 \div 10.25 = 6$ gift packs

----- M1
----- M1
----- M1, A1

16. (a) $37 + 1 = 38$
 $38 \times 2 = 76$

----- M1

Make a list / Guess and Check method

Boxes of 10	Boxes of 24	Total	Chocolates left over
$0 \times 10 = 0$	$3 \times 24 = 72$	72	Short of 4
$1 \times 10 = 10$	$3 \times 24 = 72$	82	6
$2 \times 10 = 20$	$2 \times 24 = 48$	68	Short of 8
$3 \times 10 = 30$	$2 \times 24 = 48$	78	2
$5 \times 10 = 50$	$1 \times 24 = 24$	74	Short of 2

Award M1 for logical use of the table and
another M1 for correct step to the final answer

Thus, 3 boxes of 10 and 2 boxes of 24 ----- A1

(b) $3 \times \$5.35 + 2 \times \$12.50 = \$16.05 + \$25 = \$41.05$ ----- A1

17.

(a) 140 cm [A1]

(b)

Compared length:

$$80 : 140 \\ 4 : 7$$

Equalised...

$$4 : 7 \\ (x7) \quad (x4)$$

Compared number of holes:

Circular : Triangular

$$4 : 9 \\ (x7) \quad (x4) \\ 28 : 36 \quad [M1]$$

$$36 - 28 = 8$$

$$8 \text{ units} \rightarrow 136 \\ 1 \text{ unit} \rightarrow 136 \div 8 \quad [M1] \\ = 17$$

$$64 \text{ units} \rightarrow 17 \times 64 = 1088 \quad [M1, A1]$$

18. Asians - 40%

$$\text{Europeans } \frac{90}{100} \times 60\% = 54\% \quad [\text{M1}]$$

Diff betw Asians and Europeans

$$54\% - 40\% = 14\%$$

$14\% \rightarrow 56 \text{ Europeans}$

$$1\% \rightarrow 56 \div 14 = 4$$

$$\text{Total no. of students } \rightarrow 4 \times 100 = 400 \quad [\text{M1}]$$

No. of Europeans and Americans

$$\frac{60}{100} \times 400 = 240 \quad [\text{M1}]$$

After some Asians left, 80% are

Europeans and Americans

$$80\% \rightarrow 240$$

$$10\% \rightarrow 240 \div 8 = 30$$

No. of Asians left $\rightarrow 20\%$

$$20\% \rightarrow 30 \times 2 = \underline{\underline{60}} \quad [\text{M1, A1}]$$