RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1
MATHEMATICS
PRIMARY 4

Name: _____ ( )

Math Teacher: _____ Form Class: P4 _____

Date: 14 May 2019 Duration: 1 h 45 min

Your Score	
Section A (Out of 25 marks)	
Section B (Out of 40 marks)	
Section C (Out of 35 marks)	
Overall (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.

SECTION A (25 marks)

Questions 1 to 5 carry 1 mark each. Questions 6 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.

1. What is the value of the digit '6' in 19 635.

   (1) 60

   (2) 600

   (3) 6000

   (4) 60 000

2. Which of the following numbers is 48 000 when rounded to the nearest hundred?

   (1) 48 582

   (2) 48 439

   (3) 47 950

   (4) 47 499

3. The product of 2041 and 6 is _____.

   (1) 12 046

   (2) 12 186

   (3) 12 246

   (4) 13 806

4. Divide 1407 by 7.

   (1) 21

   (2) 201

   (3) 1101

   (4) 2001

5. 8 m 8 cm = _____ cm

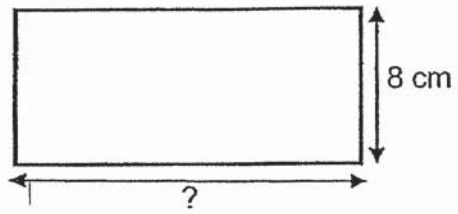
(1) 88

(2) 808

(3) 880

(4) 8008

6. The area of the rectangle is 96 cm^2. Find its length.



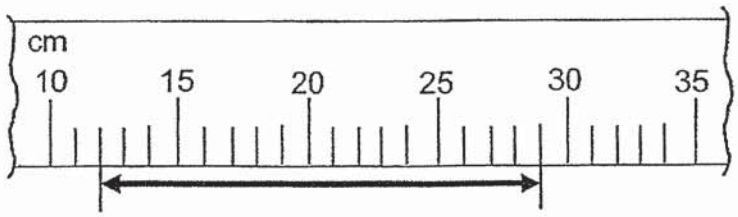
(1) 12 cm

(2) 16 cm

(3) 24 cm

(4) 40 cm

7. What is the length of the arrow as shown below?



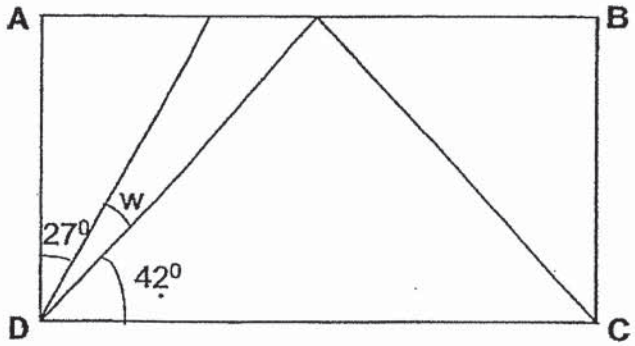
(1) 12 cm

(2) 17 cm

(3) 20 cm

(4) 29 cm

8. In the figure, ABCD is a rectangle. Find $\angle w$.



(1) 15°

(2) 18°

(3) 21°

(4) 69°

9. What is the missing number in the box?

$$\frac{3}{7} = \frac{\square}{56}$$

(1) 12

(2) 24

(3) 49

(4) 52

10. Jamie had $\frac{3}{4}$ m of ribbon. She used $\frac{1}{8}$ m to tie a box.

What was the length of the ribbon left?

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

(2) $\frac{5}{8}$ m

(3) $\frac{6}{8}$ m

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

11. The perimeter of a rectangle is 32 cm. It is 8 times of its breadth.
What is the length of the rectangle?

(1) 4 cm

(2) 8 cm

(3) 12 cm

(4) 24 cm

12. The sum of all the common factors of 9 and 18 is _____.

(1) 3

(2) 10

(3) 12

(4) 13

13. There are _____ common multiples of 6 and 8 that are smaller than 50.

(1) 1

(2) 2

(3) 3

(4) 4

14. Mr Lim bought 568 boxes of oranges. Each box contained 28 oranges. How many oranges did he buy in all?

(1) 14 344

(2) 14 783

(3) 15 848

(4) 15 904

15. Ribbon X is $\frac{2}{3}$ m long. It is $\frac{1}{6}$ m longer than Ribbon Y. What is the length of Ribbon Y?

(1) $\frac{5}{6}$ m

(2) $\frac{4}{6}$ m

(3) $\frac{3}{6}$ m

(4) $\frac{1}{6}$ m

SECTION B (40 marks)

Questions 16 to 35 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.

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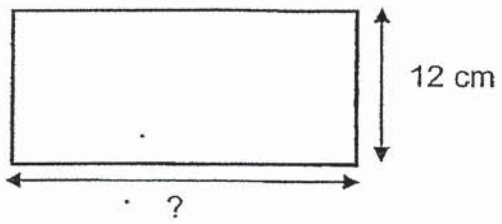
16. Arrange the numbers in order. Begin with the greatest number.

36 062 63 002 36 602 63 600

_____, _____, _____, _____

Greatest

17. The perimeter of a rectangle is 84 cm. Its breadth is 12 cm.
Find the length of the rectangle.

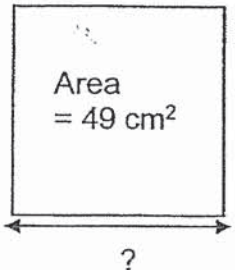


Ans: _____cm

18. Find the sum of 700 and 109. Round the answer to its nearest ten.

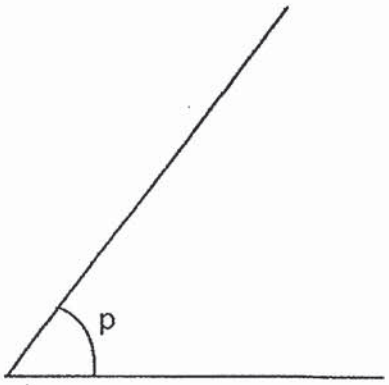
Ans: _____

19. What is the length of the square?



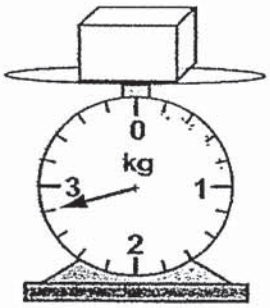
Ans: _____ cm

20. Measure ∠p.



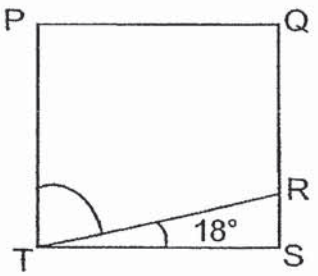
Ans: _____°

21. What is the mass of the box?



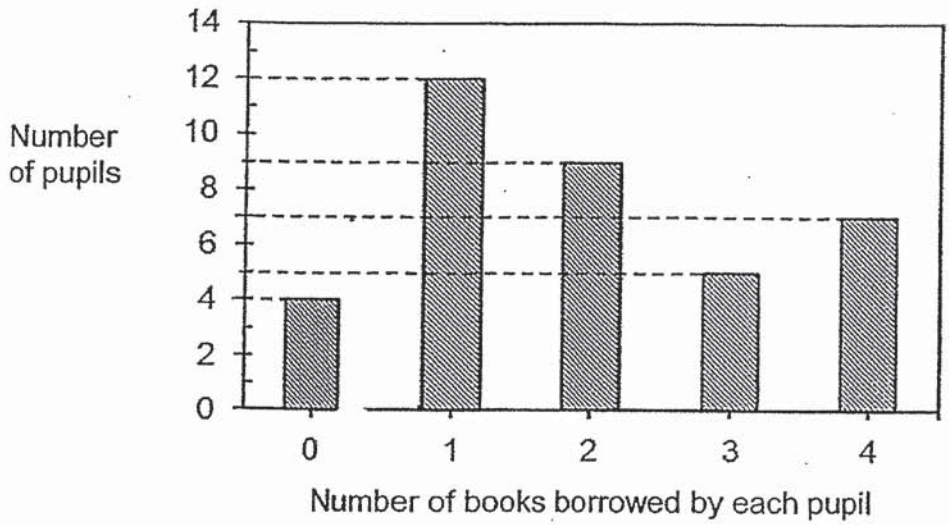
Ans: _____kg _____g

22. In the figure, PQST is a square and ∠RTS = 18° . Find ∠PTR.



Ans: _____°

The bar graph shows the number of books borrowed by pupils in a class.
Use the information and answer questions 23 and 24.



23. How many pupils were there in the class?

Ans: _____ pupils

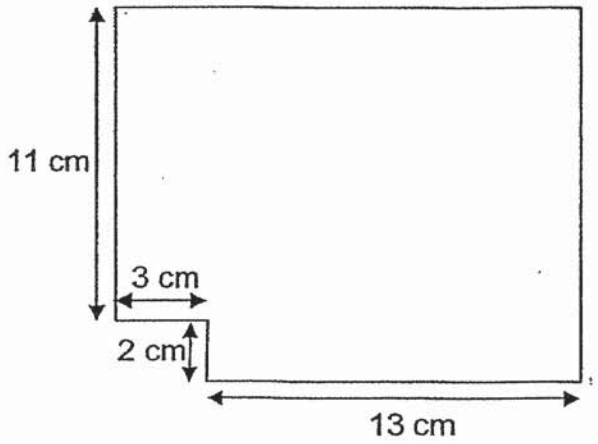
24. How many books were borrowed by the pupils in the class?

Ans: _____ books

25. Mrs Tan had 12 apples and 15 oranges. She wanted to put some apples and oranges in a box. In all the boxes, there were equal number of apples and equal number of oranges. What was the least number of boxes needed to put all the fruits and there were no leftovers?

Ans: _____ boxes

26. Find the perimeter of the figure.



Ans: _____cm

27. Mrs Lee had $6790. She distributed this amount of money equally to her 9 family members. What was the remaining amount of money after the distribution?

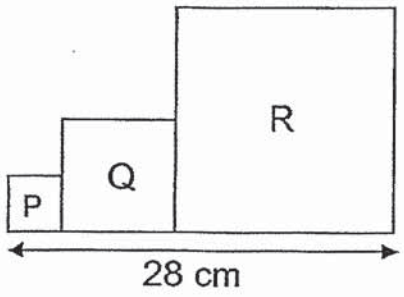
Ans$_____

28. Study the pattern below and find the missing number.

40 998 , 50 898 , 60 798 , _____ , 80 598 , 90 498

Ans: _____

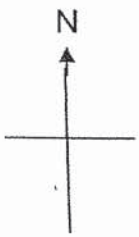
29. There are three squares, P, Q and R. The length of square R is twice the length of square Q. The length of square Q is twice the length of square P. Find the area of square P.



Ans: _____ cm^2

30. The square grid shows the plan of a school. The canteen is located at the East of the bookshop.

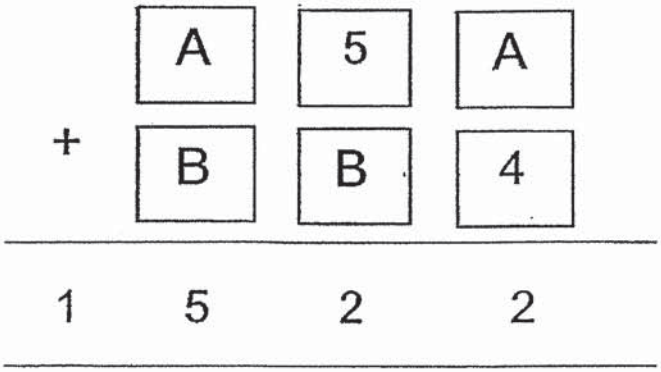
	Science Lab		Library
Bookshop		Canteen	
	Tinkering Courtyard		



In what direction is the Library from the Tinkering Courtyard?

Ans: _____

31. Each letter in the following sum represents a digit. Find the digits that are represented by these letters.



Ans: A = _____

Ans: B = _____

32. Arrange the fractions from the greatest to the smallest.

$$\frac{5}{6} \text{ , } \frac{7}{12} \text{ , } \frac{3}{4}$$

Ans: _____ , _____ , _____

greatest

33. $\angle DFE = 110°$. Draw and mark the angle.

E F

34. Both light bulbs A and B light up at the same time.
After that, light bulb A lights up every 6 minutes and light bulb B lights up every 8 minutes. When will both light bulbs A and B next light up together?

Ans: _____min

35. Mr Tan has more than 15 pens.
If he bundles them in threes, he will have 2 pens left.
If he bundles them in eights, he will have 3 pens left.
What is the smallest possible number of pens he has?

Ans: _____

SECTION C (35 marks)

For questions 36 to 44, show your working clearly in the space provided below each question and write your answers with suitable units in the spaces provided. All diagrams are not drawn to scale. Marks will be awarded for relevant working. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

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36. Mrs Wong used 1040 g of flour to bake a blueberry cheesecake. After baking 6 blueberry cheesecakes of similar masses, she had 2122 g of flour left.

    (a) How much flour did she use to bake 6 blueberry cheesecakes?

    (b) How much flour did she have at first?

Ans: (a) _____ [1]

Ans: (b) _____ [2]

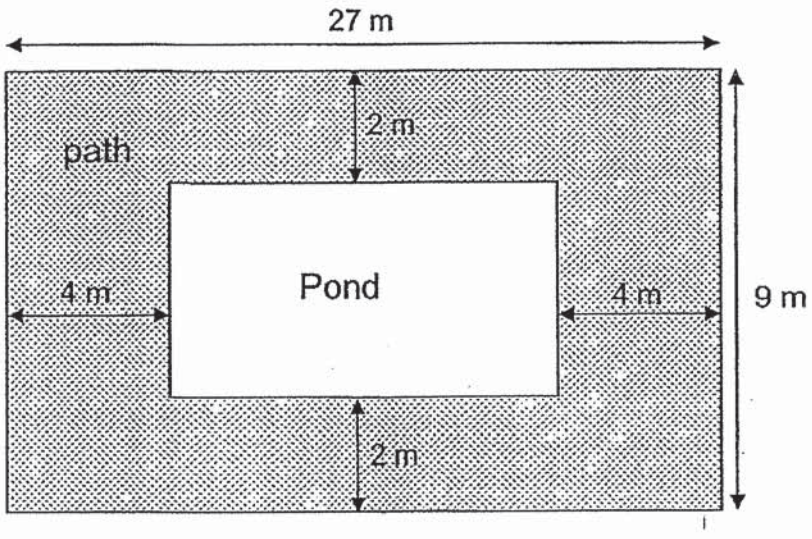
37. Tom had 88 more stamps than Sally at first.
Tom had 36 more stamps than Sally after he gave her some of his stamps.
How many stamps did Tom give to Sally?

Ans: _____ [3]

38. Mandy used a total of 48 small and big boxes to contain 256 cupcakes. Each small box had 4 cupcakes and each big box had 8 cupcakes. How many big boxes did she use?

Ans: _____ [3]

39. Mr Wong had a rectangular plot of land measuring 27 m by 9 m. He decided to build a path around a pond. Find the area of the path.



Ans: _____ [4]

40. Alice and Betty had an equal number of stickers. After Alice bought another 222 stickers and Betty gave away 14 stickers, Alice had 3 times as many stickers as Betty. How many stickers did they have altogether at first?

Ans: _____ [4]

41. Nick bought $1085 worth of T-shirts at $7 each. Some T-shirts had defects and needed to be thrown away. He sold the rest at $9 each and collected $1215. How many T-shirts did he throw away?

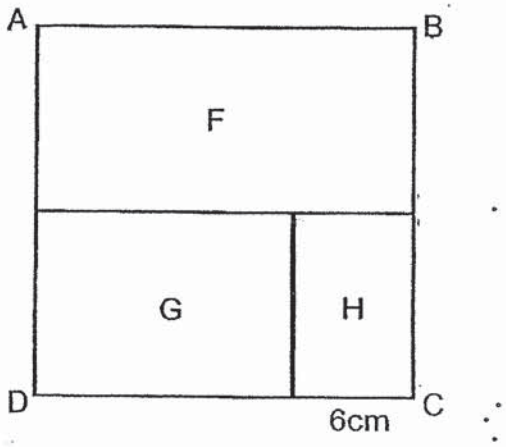
Ans: _____ [4]

42. Page A, B, C and D are four consecutive pages in a book.
Page A and Page B are two facing pages in the book.
Page C and Page D are the next two facing pages of the same book.
The sum of these four pages is 326.
What is the page number for Page D?

Ans: _____ [4]

43. ABCD is a square made up of 3 rectangles, F, G and H. The area of the square is twice the area of rectangle F. The perimeter of rectangle F is 96 cm. The perimeter of rectangle F is 52 cm more than the perimeter of rectangle H. The breadth of rectangle H is 6 cm.

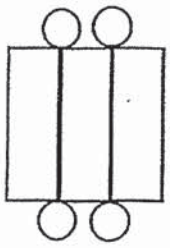
(a) Find the perimeter of the square.
(b) Find the area of the square.



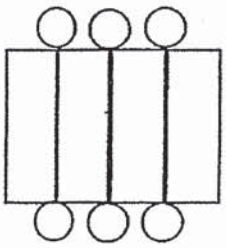
Ans: a) _____ [3]

b) _____ [2]

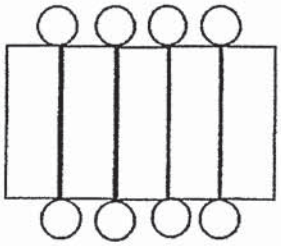
44. The pattern shows the arrangement of rectangles and circles.



Pattern 1



Pattern 2



Pattern 3

(a) How many rectangles and circles are there in pattern 4? [2]
(b) How many rectangles and circles are there in pattern 15? [3]

Pattern	Number of Rectangles	Number of Circles
1	3	4
2	4	6
3	5	8
4	(ai)_____	(aii)_____
:	:	:
:	:	:
:	:	:
15	(bi)_____	(bii)_____

The End of Paper

ANSWER KEY

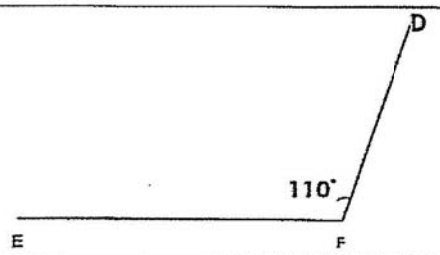
YEAR : 2019
LEVEL : PRIMARY 4
SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA1

PAPER ONE : BOOKLET A

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

PAPER ONE : BOOKLET B

Q16	63 600, 63 002, 36 602, 36 062
Q17	12 + 12 = 24 84 – 24 = 60 60 ÷ 2 = 30cm
Q18	700 + 109 = 809 Answer : 810
Q19	$\sqrt{49} = 7cm$
Q20	53°
Q21	2 kg 800g
Q22	<PTR = 90 – 18 = 72°
Q23	4 + 12 + 9 + 5 + 7 = 37 pupils
Q24	12 + (9 x 2) + (5 x 3) + (7 x 4) = 12 + 18 + 15 + 28 = 73 books
Q25	3 boxes
Q26	11 + 3 + 13 + 13 + 16 = 58cm
Q27	\$6790 ÷ 9 = 754 R 4 Answer : \$4
Q28	70 698
Q29	P : Q : R → 1 : 2 : 4 28 ÷ 7 = 4cm 4 x 4 = 16cm²
Q30	North-East
Q31	A = 8 B = 6

Q32	$\frac{5}{6}, \frac{3}{4}, \frac{7}{12}$
Q33	
Q34	Bulb A → 6, 12, 18, 24 Bulb B → 8, 16, 24 Answer: 24min
Q35	Multiple of 3 → 18, 21, 24, 27, 30, 33 +2 → 20, 23, 26, 29, 32, 35 Multiple of 8 → 16, 24, 32, 40 +3 → 19, 27, 35 Answer → 35
Q36	(a) 1040 x 6 = 6240g (b) 6240 + 2122 = 8362g
Q37	88 + 36 = 52 52 ÷ 2 = 26
Q38	Assume all small box → 48 x 4 = 192 Surplus cupcakes → 256 – 192 = 64 Diff btw big and small box → 8 – 4 = 4 Ans → 64 ÷ 4 = 16 big boxes.
Q39	Total area → 27 x 9 = 243m² Breadth of pond → 27 – 4 – 4 = 19m Length of pond → 9 – 2 – 2 = 5m Total area of pond = 19 x 5 = 95m² Area of path → 243 – 95 = 148m²
Q40	A : B → 3 : 1 2 U → 22 2 + 14 = 236 1u → 236 ÷ 2 = 118 (Betty's sticker in the end) At first → 118 + 14 = 132 Altogether → 132 + 132 = 264
Q41	Total bought → 1085 ÷ 7 = 155 Total sold → 1215 ÷ 9 = 135 Total thrown → 155 – 135 = 20

Q42	[A] , [B] , [C] , [D] → [A] , [A] +1 , [A] +2 , [A] + 3 1 + 2 + 3 = 6 326 – 6 = 320 [A] → 320 ÷ 4 = 80 [D] = 80 + 3 Answer : 83
Q43	Perimeter H → 96 –52 = 44cm Length of H → [44 – (2 x 6)] ÷ 2 = 16cm Breath of F → 16 Length of F → [96 – (2 x 16)] ÷ 2 = 32cm Ans(a) → Perimter of square → 32 x 4 = 128cm Ans(b) → 32 x 32 = 1024cm^2
Q44	(ai) 6 (aii) 10 (bi) 17 (bii) 32