



NANYANG PRIMARY SCHOOL

**FIRST CONTINUAL ASSESSMENT
2019**

**PRIMARY 6
MATHEMATICS
PAPER 1
(BOOKLET A)**

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6 ()

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) and shade your answer on the Optical Answer
Sheet. (20 marks)

1 Simplify $14a + 8 - 5a - 7$.

- (1) $9a + 1$
- (2) $9a - 1$
- (3) $19a + 1$
- (4) $19a - 1$

2 Find the missing number in the box below.

$$4800 \div 3 = 16 \times \boxed{}$$

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

- 3 Russell had $\frac{9}{10}$ ℥ of water. He drank $\frac{3}{5}$ ℥ of the water. How much water did he have left?

(1) $\frac{15}{10}$ ℥

(2) $\frac{14}{10}$ ℥

(3) $\frac{4}{5}$ ℥

(4) $\frac{3}{10}$ ℥

- 4 In the number line below, what is the value of X as indicated by the arrow?



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

(2) $\frac{7}{12}$

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

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

5 Rita had $\frac{5}{8}$ kg of cookies. She gave away $\frac{1}{3}$ of it to her friends. How many kilograms of cookies did she give away to her friends?

(1) $\frac{8}{15}$

(2) $\frac{5}{24}$

(3) $\frac{7}{24}$

(4) $\frac{23}{24}$

6 Mrs Ang had $\frac{4}{5}$ ℥ of milk. She poured all the milk equally into 8 identical bottles. How many litres of milk did she pour into each bottle?

(1) $\frac{1}{10}$

(2) $\frac{5}{32}$

(3) $6\frac{2}{5}$

(4) 10

7 Express 48 m 5 cm in cm.

- (1) 485 cm
- (2) 4805 cm
- (3) 4850 cm
- (4) 48 005 cm

8 Find the value of $30.36 \div 60$.

- (1) 5.06
- (2) 0.56
- (3) 0.506
- (4) 0.056

9 There are 80 oranges in a box. 24 of them are rotten. What percentage of the oranges in the box are rotten?

- (1) 24%
- (2) 30%
- (3) 70%
- (4) 76%

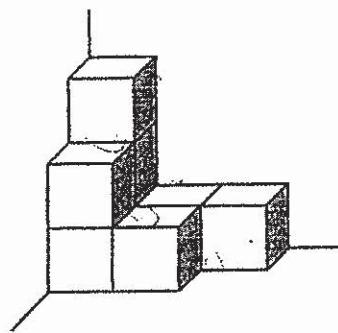
- 10 Which of the following is likely to be the mass of a 23-cm toothbrush?



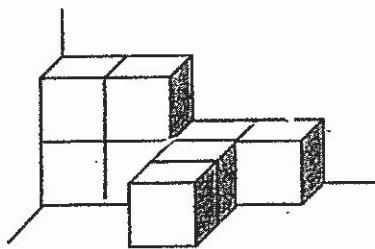
- (1) 31.75 kg
 - (2) 3.175 kg
 - (3) 31.75 g
 - (4) 3.175 g
- 11 A machine printed 1000 worksheets on the first day and 800 worksheets on the second day. What was the percentage decrease in the number of worksheets printed from the first day to the second day?
- (1) 20%
 - (2) 25%
 - (3) 80%
 - (4) 125%

- 12 Afiq used 8 unit cubes to form a solid. Which one of the following solids was not possible for him to form?

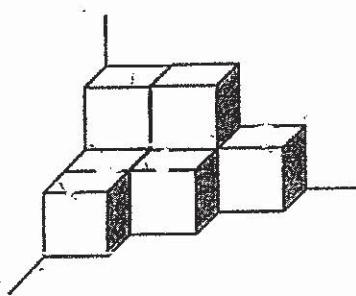
(1)



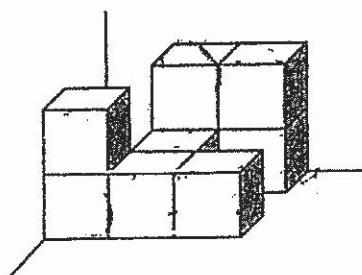
(2)



(3)



(4)

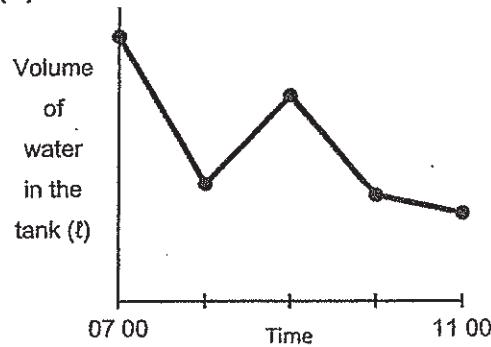


- 13 A tank was filled with 45 l of water at 07 00. Water flowed out from the tank from 07 00 to 08 00 and from 09 00 to 11 00. The table below shows the volume of water in the tank from 07 00 to 11 00.

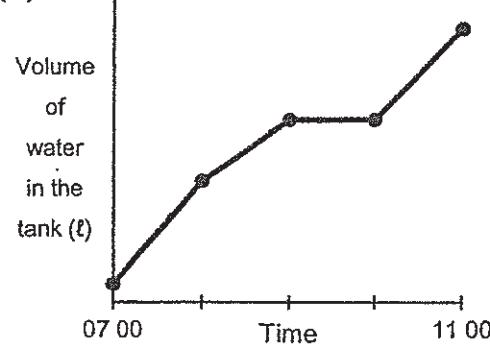
Time	07 00	08 00	09 00	10 00	11 00
Volume of water in the tank (l)	45	35	35	25	8

Which one of the line graphs below best represents the information in the table?

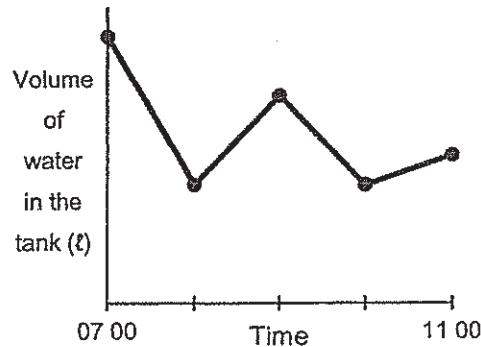
(1)



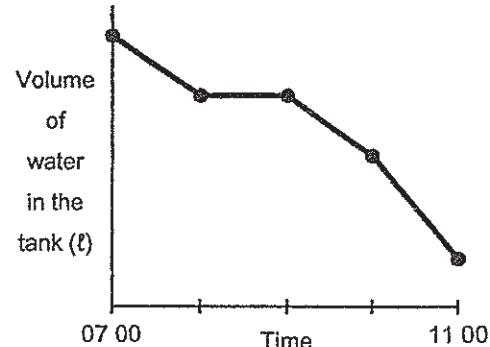
(2)



(3)



(4)



- 14 Mrs Tay had 3 m of cloth to make 2 pillow cases. She used $\frac{3}{8}$ m of cloth for each pillow case. How much cloth did she have left?

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

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

(3) $2\frac{1}{4}$ m

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

- 15 Observe the pattern below.

2	16
8	4

4	32
16	8

8	64
32	?

16	128
64	32

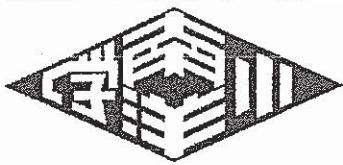
Find the missing number.

(1) 12

(2) 16

(3) 24

(4) 4



NANYANG PRIMARY SCHOOL

**FIRST CONTINUAL ASSESSMENT
2019**

PRIMARY 6

**MATHEMATICS
PAPER 1
(BOOKLET B)**

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6 ()

Any query on marks awarded should be raised by **14 March 2019**. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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.

(5 marks)

- 16 Find the value of $24 + 36 \div (6 + 3 \times 2)$.

Ans: _____

- 17 Find the value of $\frac{11}{12} \div \frac{1}{3}$. Express your answer as a mixed number.

Ans: _____

- 18 Find the missing number in the box below.

$$\boxed{\quad} \div 5 = 10$$

Ans: _____

19 Find the value of $\frac{11+4a}{7}$ when $a = 6$.

Ans: _____

20 In a school, 55% of the pupils were boys. There were 1600 pupils in the school. How many boys were there?

Ans: _____

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21 Aishah spent 20% of her monthly salary on a tablet which cost \$400. How much was her monthly salary?

Ans: \$ _____

- 22 Alex is 1.53 m. Alex is 0.26 m shorter than Brandon. Find the height of Brandon.

Ans: _____ m

- 23 Rajesh took $\frac{1}{10}$ hour to walk 1 complete round of a running track. At this rate, how long will he take to walk 6 complete rounds of the running track?

Ans: _____ h

- 24 Mr Lau bought 9 large pizzas for all his pupils in Primary 6B to share equally at a party. Three pupils did not turn up for the party. As a result, each remaining pupil received $\frac{3}{8}$ of a pizza. How many pupils did he have in Primary 6B in total?

Ans: _____

- 25 Clarice is n years old now. Mrs Tan is 3 times her age now. Find the total sum of their age in 4 years' time.
Express your answer in terms of n .

Ans: _____

- 26 Faizal spent $\$h$ on a magazine and $\$12$ more on a book than the magazine. He also bought a pen at $\$5$. He spent a total of $\$25$. How much did the magazine cost?

Ans: \$ _____

- 27 Sue had 6 packets of chocolate bars. Each packet contained 12 chocolate bars. She repacked all the chocolate bars into bags of 4 or 5 bars. She had 8 bags containing 5 chocolate bars each. How many bags of 4 chocolate bars did she pack?

Ans: _____

- 28 Mr Kim had forgotten his 3-digit passcode for logging into his laptop. However, he remembered that the passcode contained three out of these four digits, 2, 4, 7 and 8. None of the digits was repeated. He tried 247 and 274 but both passcodes were incorrect. At most, how many more passcodes could he make?

Ans: _____

- 29 Two numbers add up to 1.52. Both of the numbers are smaller than 1. One of them has 1 decimal place and the other has 2 decimal places. What is the largest possible difference between the two numbers?

Ans: _____

- 30 A shop sells pens in three different colours. The table shows the number of pens sold in May for blue and red but not green.

Colour	Number of pens sold
Blue	80
Green	?
Red	40

- (a) In May, 50% of the pens sold were green. How many pens were sold altogether in May?
- (b) In June, the number of pens sold that were red remained the same but there was an increase in the number of pens sold for the other two colours. Did the percentage of pens sold that were red increase, decrease or remain the same from May to June?

Ans: (a) _____ [1]

(b) _____ [1]

End of Paper

MARKED

05 MAR 2019



NANYANG PRIMARY SCHOOL

FIRST CONTINUAL ASSESSMENT 2019

PRIMARY 6

MATHEMATICS
PAPER 2

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of an approved calculator is expected, where appropriate.

Name: _____ ()

Class: Primary 6 ()

Parent's Signature: _____

Booklet A	/ 20
Booklet B	/ 25
Paper 2	/ 55
Total	/ 100

Any query on marks awarded should be raised by **14 March 2019**. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

- 1 Arfan had $\frac{7}{8}$ kg of rice at first. He then bought another $1\frac{1}{2}$ kg of rice and used $\frac{1}{5}$ kg of rice to cook porridge. How many kilograms of rice did he have left? Express your answer as a mixed number.

Ans: _____ kg

- 2 A rectangle measures 14 m by $8\frac{4}{7}$ m. Find the area of the rectangle.

Ans: _____ m^2

- 3 Olivia bought a handbag and was given a discount of 15%. The price of the handbag was \$130 before discount. How much was the discount for the handbag?

Ans: \$_____

- 4 There are four numbers in the box below. Which number should be removed from the box to get an average of 11 for the remaining 3 numbers?

5	8	11	17
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Ans: _____

- 5 It takes Mr Lee 4 days to build 8 identical toy aeroplanes. At this rate, how many days will it take Mr Lee to build 12 such toy aeroplanes?

Ans: _____

For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

- 6 A florist had some flowers. 25% of the flowers were carnations, 45% of the flowers were roses, 16% of the flowers were lilies and the rest were tulips. She had 280 tulips. How many flowers did she have altogether?

Ans: _____ [3]

- 7 The table below shows the rental charges of a bicycle.

Rental Charges	
For the 1 st hour	\$4.00
For every additional half hour	\$1.50

- (a) Kelly rented a bicycle from 3.00 p.m. to 5.30 p.m. on Tuesday. How much did she pay?
- (b) Adele paid \$10 when she rented a bicycle. Find the greatest number of hours that she could have rented the bicycle.

Ans: (a) _____ [1]

(b) _____ [2]

- 8 Evan had some money. He spent $\frac{1}{3}$ of his money on a bag and a pair of shoes. The pair of shoes cost twice as much as the bag. He had \$360 left after spending on the two items. How much did the pair of

Ans: _____ [3]

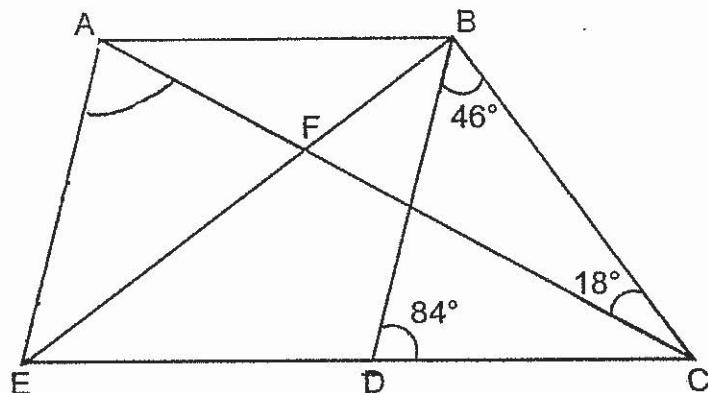
- 9 Ravi had 8 identical pieces of wood each measuring $\frac{3}{5}$ m long and $\frac{1}{8}$ m wide. He then glued all the pieces of wood together to form the figure below without any overlaps. Find the perimeter of the figure.

Ans: _____ [3]

- 10 A set of numbers is written on a board. If the number 34 is added to the set of numbers, the average will increase by 1. If the number 58 is added to the original set of numbers, the average will increase by 4. How many numbers are written on the board?

Ans: _____ [3]

- 11 In the figure below, ABCE is a trapezium with AB parallel to EC. ABDE is a rhombus. AFC and BFE are straight lines. $\angle DBC = 46^\circ$, $\angle BCA = 18^\circ$ and $\angle BDC = 84^\circ$. Find $\angle BAC$.



Ans: _____ [4]

- 12** Alex and Billy had d stamps each at first. Alex lost 48 stamps. Billy received 130 stamps from his mother. They had 934 stamps altogether in the end.
- (a) How many stamps did Alex have in the end? Express your answer in terms of d .
- (b) How many stamps did each of them have at first?

Ans: (a) _____ [1]

(b) _____ [3]

13 Leroy had a sum of money at first. He spent 60% of his money on a set of storybooks and 25% of the remaining money on a box of crayons. He had \$63 left.

- (a) What fraction of his money did he spend on the box of crayons?
- (b) How much did he spend on the box of crayons?

Ans: (a) _____ [2]

(b) _____ [2]

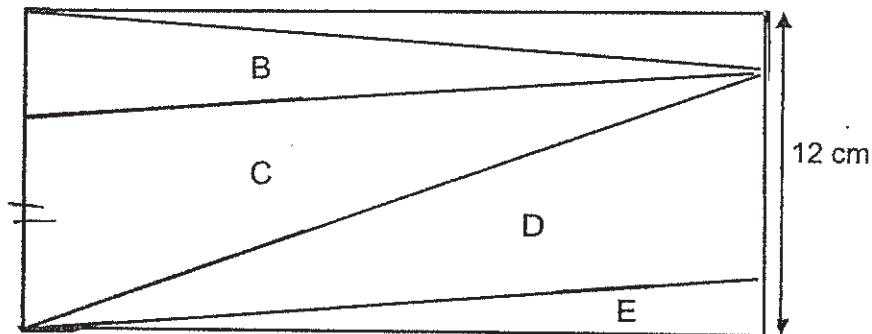
- 14 Yumi had 90 more stickers than Martin at first. Yumi gave away 90% of her stickers to her sister and Martin gave away 60% of his stickers to his brother. In the end, Martin had twice as many stickers as Yumi. How many stickers did Yumi have at first?

Ans: _____ [4]

- 15 A glass tank measuring 45 cm long and 30 cm wide contained some water which could fill up 5 identical pails completely. After some water was poured out to fill up 2 of the pails completely, the height of the water left in the glass tank dropped to 14 cm. How much water was there in the glass tank at first?

Ans: _____ [4]

- 16 A rectangle is made up of 5 triangles, A, B, C, D and E. The area of triangle A is $\frac{1}{12}$ the area of the rectangle. The area of triangle C is $\frac{1}{3}$ the area of the rectangle. The area of triangle A is equal to the area of triangle E. The area of triangle D is 96 cm^2 .

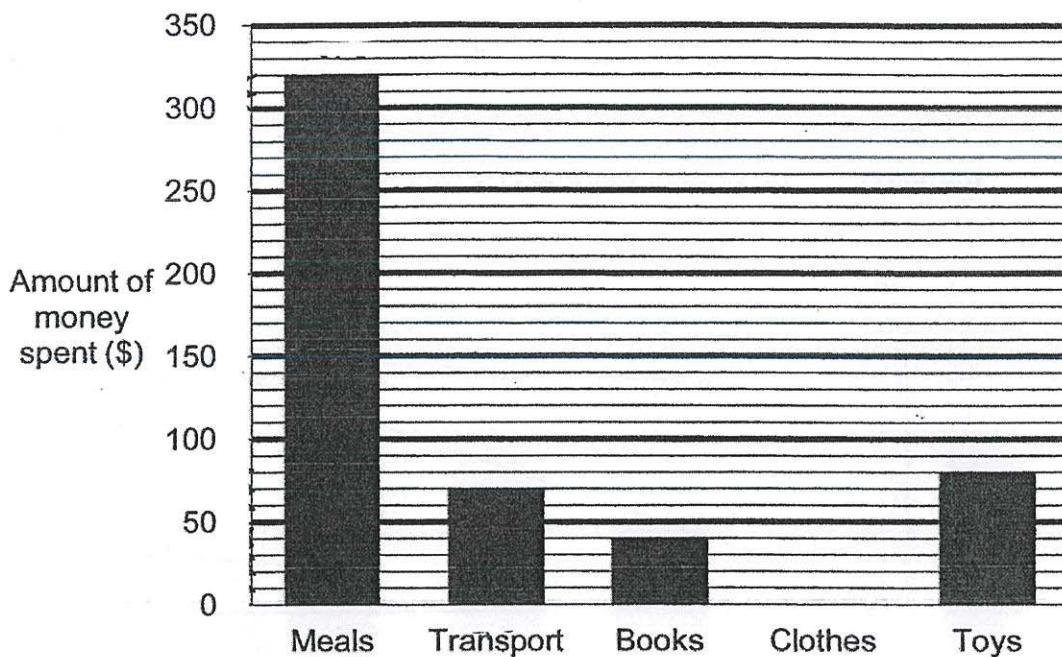


- (a) Find the ratio of the area of triangle C to the area of triangle D.
(b) Find the perimeter of the rectangle.

Ans: (a) _____ [1]

(b) _____ [4]

- 17 The bar graph below shows how Bala spent his monthly allowance in March. The bar for the amount of money spent on clothes had not been drawn.



- (a) What is the ratio of the amount of money spent on books to that on meals? Express your answer in the simplest form.
- (b) The amount of his monthly allowance is 8 times the amount he spent on transport. How much did he spend on clothes?
- (c) Each statement below is either true, false or not possible to tell from the information given in the bar graph.

For each statement, put a tick (\checkmark) in the correct column to indicate your answer.

Statement	True	False	Not Possible to Tell
The amount of money spent on meals in February was less than that in March.			
In March, Bala paid \$4.50 for each book.			

Ans: (a) _____ [1]

(b) _____ [2]

EXAM PAPER 2019**LEVEL : PRIMARY 6****SCHOOL : NANYANG PRIMARY SCHOOL****SUBJECT: MATHEMATICS****TERM : CA1****PAPER 1****SECTION A**

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

SECTION B

Q16. 27

Q17. $2\frac{3}{4}$

Q18. 50

Q19. 5

Q20. 880 boys

Q21. \$2000

Q22. 1.79m

Q23. $\frac{3}{5}h$

Q24. 27 pupils

Q25. $(4n+8)$ years

Q26. \$4

Q27. 8 bags

Q28. 22

Q29. 0.32

Q30. (a) 240 pens

(b) Decrease

PAPER 2

Q1. $\frac{7}{8} + 1\frac{1}{2} = 2\frac{8}{8}$

$2\frac{3}{8} - \frac{1}{5} = 2\frac{7}{40}$

Ans: $2\frac{7}{40}\text{kg}$

Q2. $14 \times 8\frac{4}{7} = 120$

Ans: 120m^2

Q3. $130 \times 15\% = 19.50$

Ans: \$19.50

Q4. **Ans:** 8

Q5. 8 toys \rightarrow 4 days

$$\begin{aligned}1 \text{ toy} &\rightarrow 4 \div 8 \\&= \frac{1}{2} \text{ days} \\12 \text{ toys} &\rightarrow \frac{1}{2} \times 12 \\&= 6 \text{ days}\end{aligned}$$

Ans: 6 days

Q6. $100\% - 25\% - 45\% - 16\% = 14\%$

$$14\% \rightarrow 280$$

$$\begin{aligned}100\% &\rightarrow (280 \div 14) \times 100 \\&= 2000\end{aligned}$$

Ans: 2000 flowers

Q7. (a) From 3.00p.m. To 5.30p.m. = 2hrs 30 mins

$$\text{First hour} = \$4.00$$

$$\begin{aligned}\text{Next 1hr 30mins} &= \$1.50 \times 3 \\&= \$4.50\end{aligned}$$

$$\$4.00 + \$4.50 = \$8.50$$

(b) $\$10 - \$4 = \$6$

$$\$6 \div \$1.50 = 4$$

$$4 \times 30 \text{ mins} = 2 \text{ hrs}$$

$$1 + 2 = 3$$

Ans: a) \$8.50

b) 3hrs

Q8.

shoes	shoes	bag	left	left	left	left	left	left
-------	-------	-----	------	------	------	------	------	------

$$6u \rightarrow \$360$$

$$1u \rightarrow \$360 \div 6$$

$$= \$60$$

$$2u \rightarrow \$60 \times 2$$

$$= \$120$$

Ans: \$120

Q9. $\frac{3}{5} \times 3 = 1\frac{4}{5}$
 $\frac{1}{8} \times 4 = \frac{1}{2}$
 $\frac{1}{2} + \frac{1}{2} + 1\frac{4}{5} + 1\frac{4}{5} = 4\frac{3}{5}$
Ans: $4\frac{3}{5}$ m

Q10. $58 - 34 = 24$
 $4 - 1 = 3$
 $24 \div 3 = 8$
 $8 - 1 = 7$
Ans: 7 numbers

Q11. Angle ABD = $180^\circ - 96^\circ$
 $= 84^\circ$
 $84^\circ + 46^\circ = 130^\circ$
 $180^\circ - 130^\circ - 18^\circ = 32^\circ$

Q12. (a) **Ans:** $(d - 48)$ stamps
 (b) $d - 48 + d + 130 = 2d + 82$
 $2d + 82 = 934$
 $2d = 852$
 $d = 426$
Ans: a) $(d - 48)$ stamps
 b) 426

Q13. (a) $100\% - 60\% = 40\%$
 25% of remainder = 10% of total

 (b) $40\% - 10\% = 30\%$
 $30\% \rightarrow \$63$
 $10\% \rightarrow \$21$
Ans: a) $\frac{1}{10}$
 b) \$21

Q14. At first,
 Yumi $\rightarrow 10u + 90$
 Martin $\rightarrow 10u$
After,
 Yumi $\rightarrow 1u + 9$
 Martin $\rightarrow 4u$
 $2 \times (1u + 9) = 4u$
 $2u + 18 = 4u$
 $2u = 18$
 $1u = 9$
 Yumi $\rightarrow 9 \times 10 + 90$
 $= 180$
Ans: 180 stickers

Q15. $45 \times 14 \times 30 = 18900$

$5 - 2 = 3$

3 pails = 18900

1 pail = 6300

5 pail = amount of water in the tank at first

= 6300×5

= 31500

Ans: 31500cm³

Q16. (a) A : B : C : D : E

1 : 2 : 4 : 4 : 1

C : D

4 : 4

1 : 1

(b) $4u \rightarrow 96$

$12u \rightarrow 96 \times 3$

= 288

Length of rectangle = $288 \div 12$

= 24

Perimeter = $12 + 12 + 24 + 24$

= 72

Ans: a) 1 : 1

b) 72cm

Q17. (a) Book : Meals

40 : 320

1 : 8

(b) Allowance $\rightarrow \$70 \times 8$

= \$560

$\$560 - \$320 - \$70 - \$80 = \$50$

(c) Not possible to tell; False

Ans: a) 1 : 8

b) \$50

c) Not possible to tell; False