



NANYANG PRIMARY SCHOOL

**SECOND SEMESTRAL EXAMINATION
2018**

PRIMARY 4

**MATHEMATICS
(BOOKLET A)**

Total Duration for Booklets A and B: 1 hour 45 minutes

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.

Name: _____ ()

Class: Primary 4 ()

Questions 1 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. (30 marks)

1. In the number 86 725, which digit is in the thousands place?

- (1) 6
- (2) 2
- (3) 7
- (4) 8

2. Ninety thousand and four in figures is _____

- (1) 94
- (2) 904
- (3) 9004
- (4) 90 004

3. 8 is not a factor of _____.

(1) 24

(2) 40

(3) 62

(4) 88

4. $3\frac{8}{9} = \frac{\boxed{}}{9}$

What is the missing number in the box?

(1) 18

(2) 24

(3) 27

(4) 35

5. Which of the following decimals is the smallest?

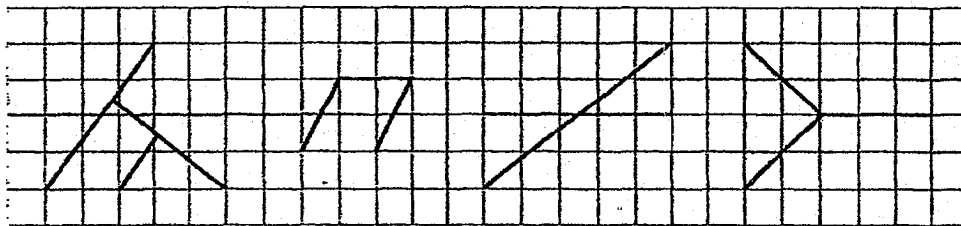
(1) 3.07

(2) 3.15

(3) 3.038

(4) 3.304

6. Which of the following figures in the square grid below has both parallel lines and perpendicular lines?



(1)

(2)

(3)

(4)

7. Theresa has 78 packets of beads.
Each packet contains 345 beads.
How many beads does Theresa have in total?

- (1) 267
- (2) 423
- (3) 5175
- (4) 26 910

8. A tank contained 7806 ℓ of water. All the water from the tank was poured equally into 6 containers without spilling. What was the amount of water in each container?

- (1) 131 ℓ
- (2) 141 ℓ
- (3) 1301 ℓ
- (4) 1401 ℓ

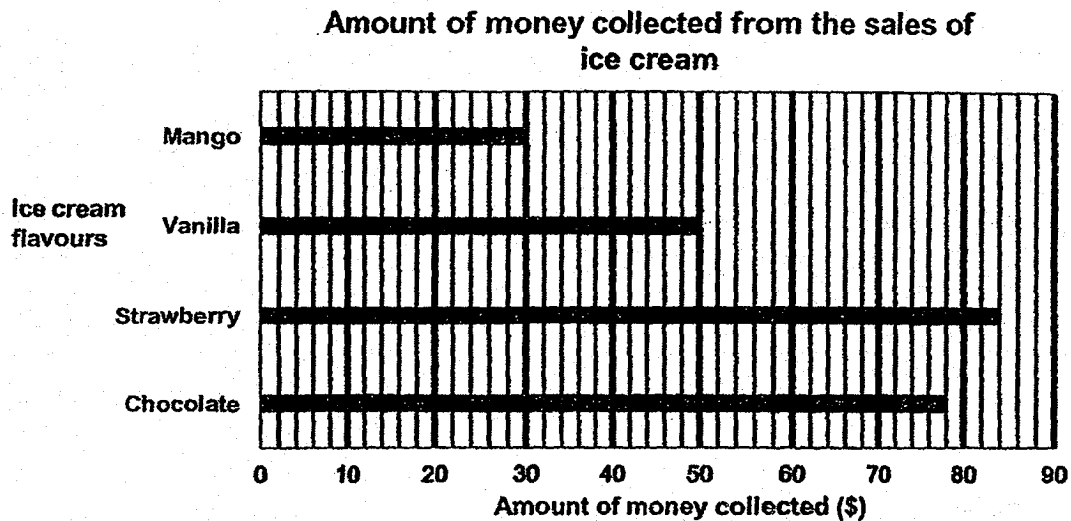
9. Jon Heng completed a race in 675 seconds.
He was 9 seconds faster than Bala.
How many seconds did Bala take to complete the race?

- (1) 666
- (2) 674
- (3) 676
- (4) 684

10. Ribbon A is 5.42 m. Ribbon B is 0.5 m shorter than Ribbon A.
What is the length of Ribbon B?

- (1) 1.62 m
- (2) 4.92 m
- (3) 5.92 m
- (4) 7.11 m

11. The bar graph below shows the amount of money collected from the sales of ice cream on a certain Sunday.



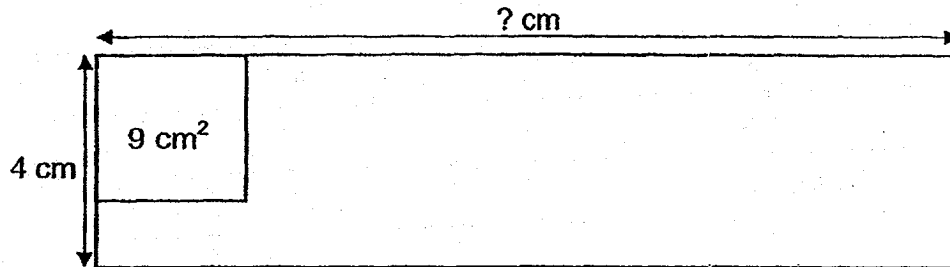
The table shows the price of each cup of ice cream of different flavour.

Flavour	Price
Chocolate	\$4
Strawberry	\$3
Vanilla	\$2
Mango	\$1

How many cups of strawberry flavoured ice cream were sold?

- (1) 21
- (2) 28
- (3) 42
- (4) 84

12. The figure below is made up of a rectangle and a square. The breadth of the rectangle is 4 cm and the area of the square is 9 cm^2 . The area of the rectangle is 8 times the area of the square. What is the length of the rectangle?



- (1) 18 cm
 (2) 32 cm
 (3) 3 cm
 (4) 72 cm
13. On Sunday, Mr Tan collected 3 times the mass of the newspapers he collected on Saturday. On Monday, he collected 365 kg more newspapers than on Sunday. On Tuesday, he collected 181 kg less newspapers than on Saturday. He collected 4600 kg of newspapers on the 4 days altogether. How many kilograms of newspapers did he collect on Saturday?

- (1) 552
 (2) 598
 (3) 4416
 (4) 4784

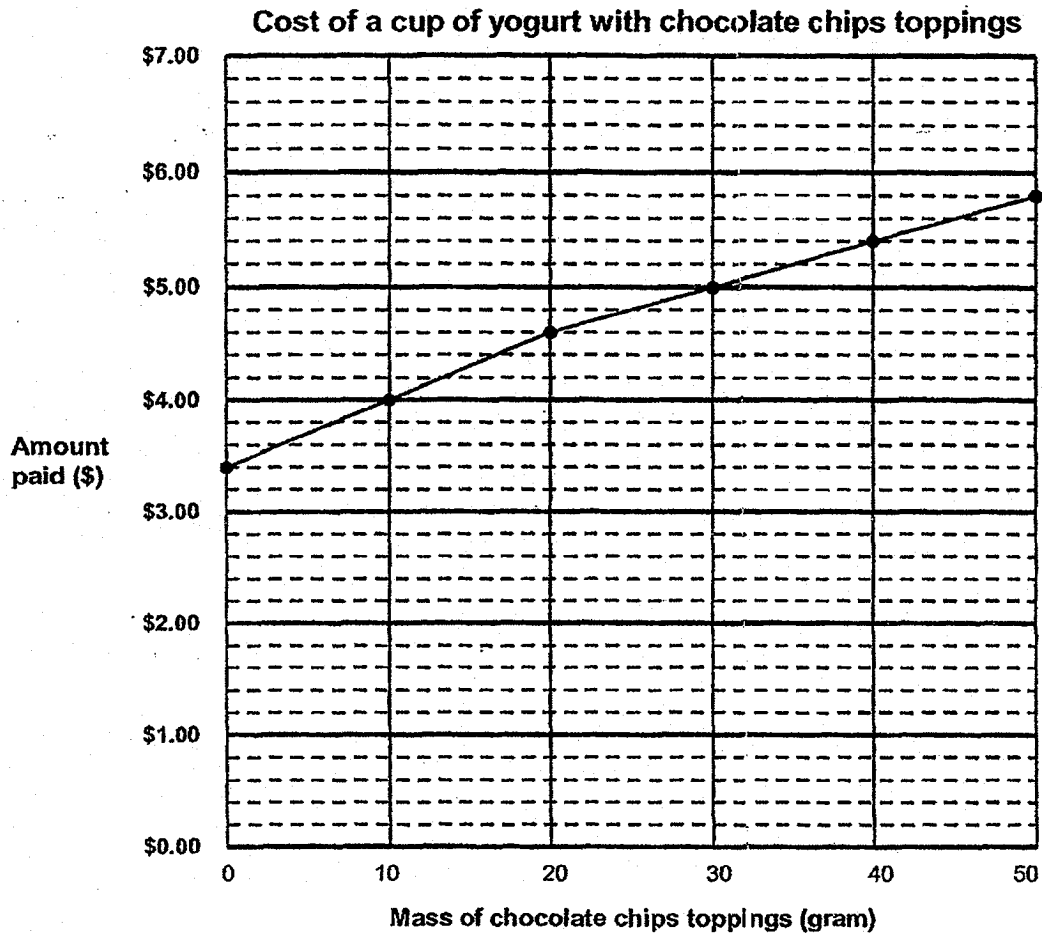
14. The table below shows how Ben spent his pocket money last month. The amount of money he spent on books was twice the amount of money he spent on food.

Category	Amount
Food	?
Transport	\$60
Books	?
Total amount	\$300

Find the amount of money Ben spent on books.

- (1) \$80
- (2) \$120
- (3) \$160
- (4) \$240

15. The line graph below shows the cost of a cup of yogurt with chocolate chips toppings.



Li Ming spent \$5 on a cup of yogurt with chocolate chips toppings.
Find the mass of the chocolate chips toppings added to her yogurt.

- (1) 35 g
- (2) 30 g
- (3) 25 g
- (4) 20 g



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2018**

PRIMARY 4

**MATHEMATICS
(BOOKLET B)**

Total Duration for Booklets A and B: 1 hour 45 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.

Name: _____ ()

Class: Primary 4 ()

Parent's Signature: _____

Booklet A	/ 30
Booklet B	/ 70
Total	/ 100

Any query on marks awarded should be raised by **5 November 2018**. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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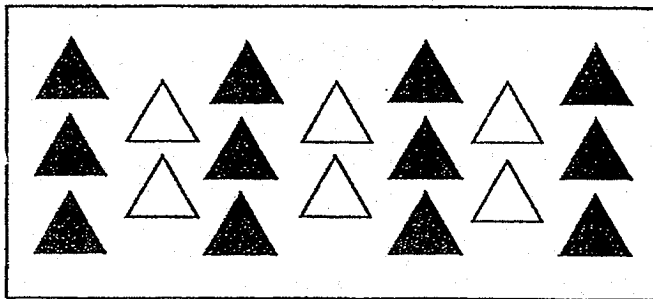
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Questions 16 to 35 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 marks)

16. $4106 + 377 =$ _____

Ans: _____

17. What fraction of the triangles shown are grey in colour?



Ans: _____

18. How many one-fifths are there in 1 whole?

Ans: _____

19. $\frac{1}{4} + \frac{7}{12} =$ _____

Ans: _____

20. Write 3 tenths as a decimal.

Ans: _____

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

0.069, 0.906, 0.609

Ans: _____ , _____ , _____
(greatest) (smallest)

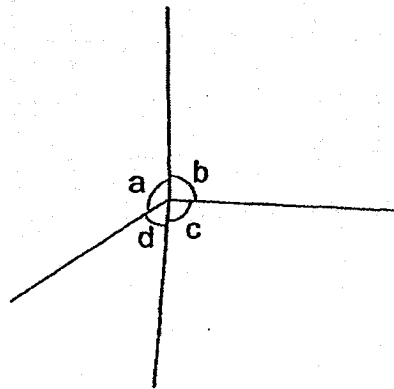
22. Express 0.7 as a fraction.

Ans: _____

23. Find the value of 6.83×7 .

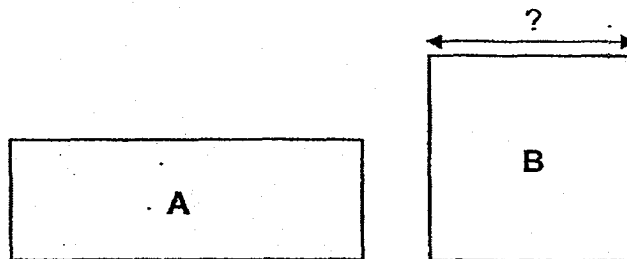
Ans: _____

24. In the figure below, name the smallest angle.



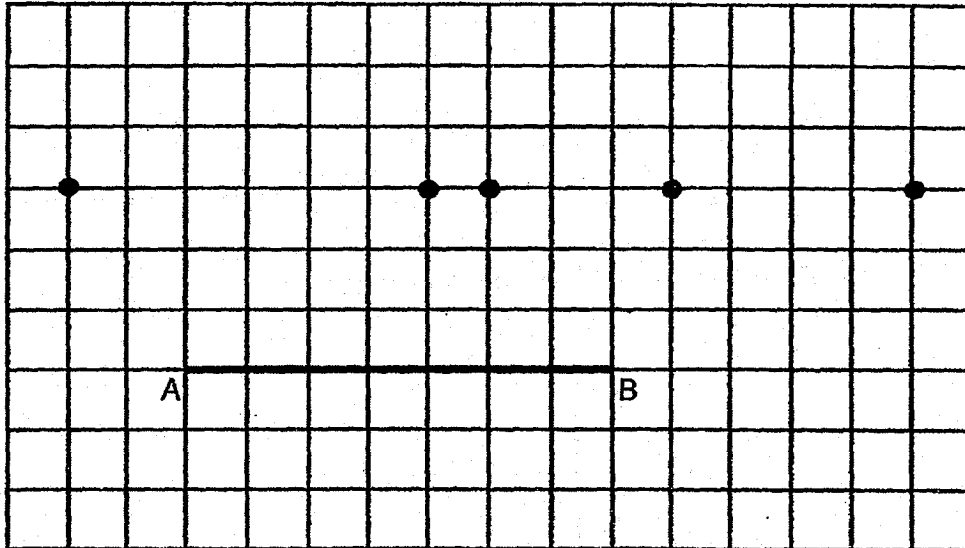
Ans: _____

25. Rectangle A and Square B have the same perimeter. The perimeter of Rectangle A is 20 cm. What is the length of Square B?



Ans: _____ cm

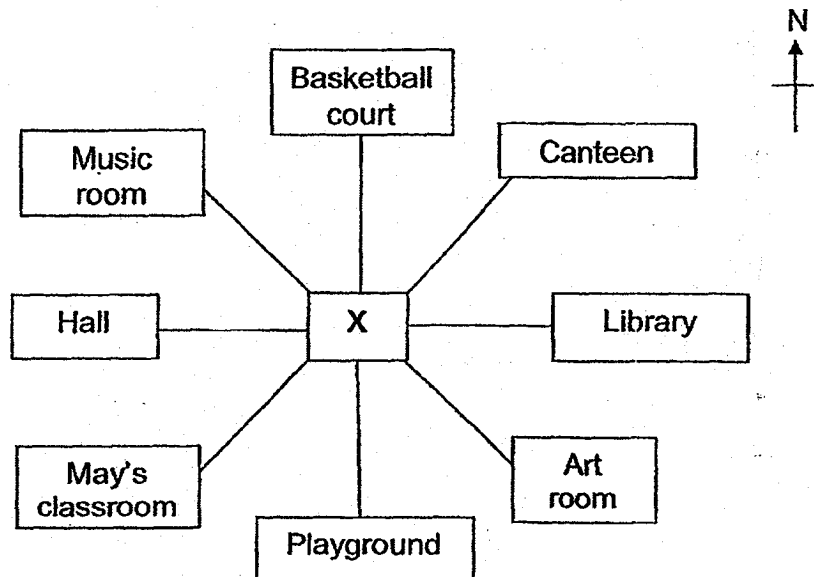
26. In the square grid below, line AB and five points are given. One of the five given points is point C. $\angle ABC$ is greater than 90° but smaller than 135° . Draw line BC to complete $\angle ABC$.



27. Rohan was facing south-west at first. He made a 270° clockwise turn followed by a $\frac{1}{2}$ turn. Which direction was he facing in the end?

Ans: _____

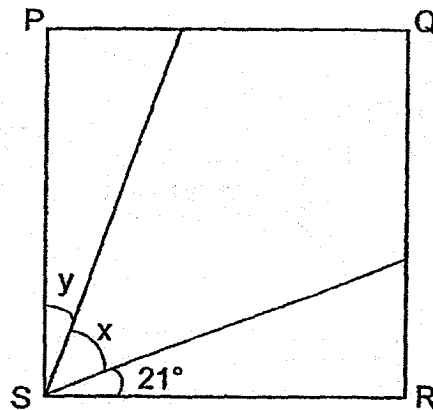
28. The diagram below shows the different locations in ABC Primary School.



May was at X and facing the canteen. After making an anti-clockwise turn, she was facing the playground. How many degrees in the anti-clockwise direction did she turn?

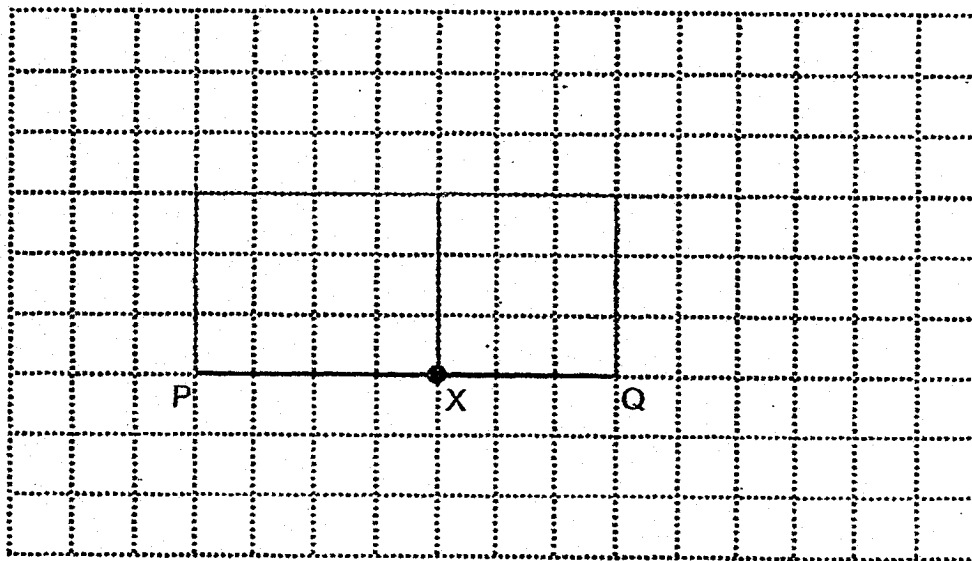
Ans: _____

29. In the figure below, PQRS is a square and $\angle x$ is twice of $\angle y$. Find $\angle y$.

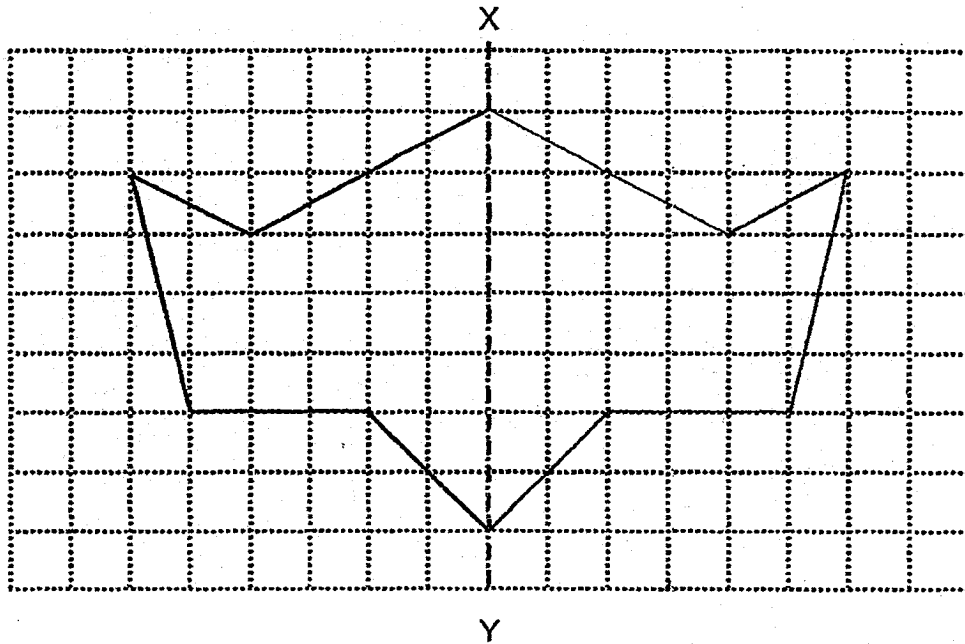


Ans: _____°

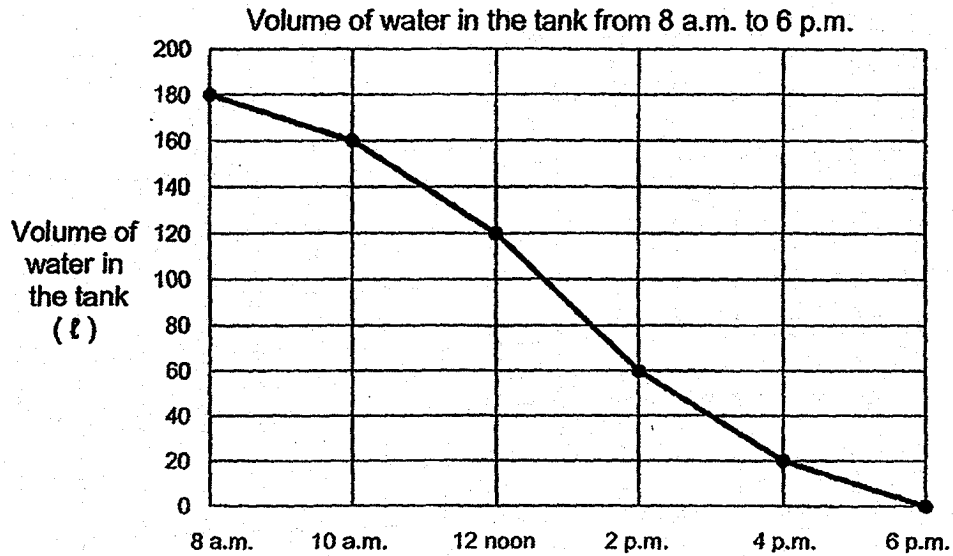
30. In the square grid, line PXQ has been drawn. XQ forms one side of square XQRY and PX forms one side of rectangle PXYS. Complete the drawing of square XQRY and rectangle PXYS.



31. Complete the following figure using line XY as the line of symmetry.



32. A tank was completely filled with water at 8 a.m. Water flowed out of the tank from 8 a.m. to 6 p.m. The line graph below shows the volume of water in the tank at each 2-hour interval from 8 a.m. to 6 p.m.



How much water had flowed out of the tank by 2 p.m.?

Ans: _____ l

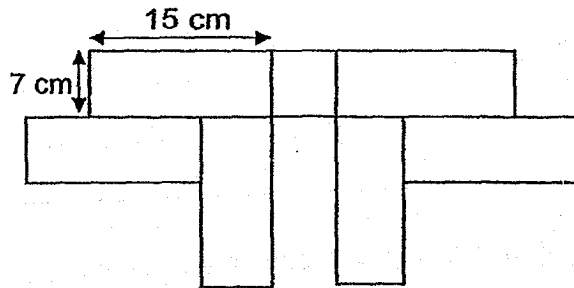
33. Matt had a piece of wire. He used $\frac{2}{7}$ of it to make a toy and $\frac{1}{3}$ of it to make a bookmark. What fraction of the wire did he have left?

Ans: _____

34. Yan had some sweets. She packed all the sweets into 1438 packets with 6 sweets in each packet and had 3 sweets left over. How many sweets did Yan have at first?

Ans: _____

35. Mr Lim arranges 6 identical rectangular tiles and 1 square tile as shown in the figure below. The length of the rectangular tile is 15 cm and its breadth is 7 cm. What is the area of the figure?



Ans: _____ cm^2

For questions 36 to 43, 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. (30 marks)

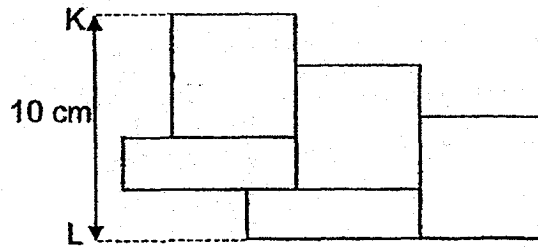
36. A stalk of carnation cost \$0.80. Fatimah spent all her money to buy 7 stalks of carnation. She could buy 4 stalks of roses with the same amount of money. How much did each stalk of rose cost?

Ans: _____ [3]

37. Qui Ling was given 100 minutes to complete a test. She took $\frac{3}{4}$ of the time to complete the test and she stopped writing after that. She started doing the test at 14 50. At what time did she stop writing?

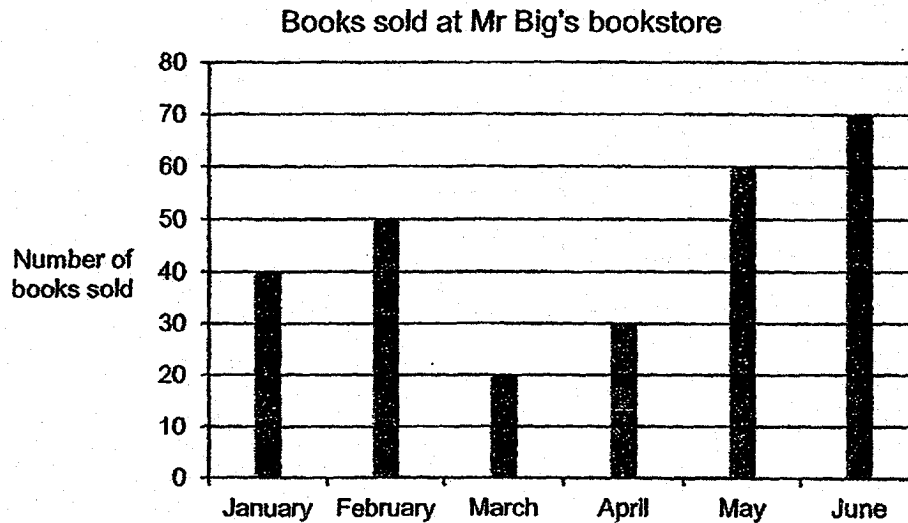
Ans: _____ [3]

38. The figure below is made up of 3 identical squares and 2 identical rectangles. The area of each square is 36 cm^2 . The area of each rectangle is 16 cm^2 . The length of KL is 10 cm. What is the perimeter of the figure?



Ans: _____ [4]

39. The bar graph below shows the number of books sold at Mr Big's bookstore from January to June.



- (a) In which month was the most number of books sold?
- (b) How many fewer books were sold in March than in May?
- (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 (✓) in the correct column.

Statement	True	False	Not Possible to Tell
The increase in the number of books sold from May to June was less than the increase in the number of books sold from June to July.			
The number of books sold in January was three times the number of books sold in August			

[2]

Ans: (a) _____ [1]

(b) _____ [1]

40. At a bakery, Johari paid \$12.50 for a walnut cake and 5 doughnuts. Muthu paid \$16.75 for 1 such walnut cake and 10 such doughnuts.

- (a) Find the cost of 5 such doughnuts.
(b) Find the cost of 2 such walnut cakes.

Ans: (a) _____ [2]

(b) _____ [2]

41. Rosemary had only blue beads at first. She had 1548 blue beads. She gave 282 blue beads to her sister. After she bought 4 boxes of red beads, she had 3726 beads altogether. There was an equal number of red beads in each box. How many red beads were there in each box?

Ans: _____ [4]

42. A flask contained some water. Susan poured $\frac{2}{3}$ ℓ of water into a glass. Mrs Amira added $\frac{3}{8}$ ℓ of water into the flask. Peter spilled $\frac{1}{3}$ ℓ of water from the flask. There was $\frac{5}{8}$ ℓ of water in the flask in the end. How many litres of water was there in the flask at first? Express your answer as a mixed number in the simplest form.

Ans: _____ [4]

43. There were a total of 13 rice cookers and laptops. The total mass of these 13 rice cookers and laptops was 27 kg. The mass of each rice cooker was 3 kg and the mass of each laptop was 1 kg.

- (a) How many rice cookers were there?
- (b) Find the total mass of the rice cookers.

Ans: (a) _____ [3]

(b) _____ [1]

End of Paper

ANSWER KEY

YEAR : 2018

LEVEL : PRIMARY 4

SCHOOL : NANYANG PRIMARY SCHOOL

SUBJECT : MATHEMATICS

TERM : SA 2

BOOKLET A

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

BOOKLET B

Q16) 4483

Q17) $\frac{12}{18}$

Q18) 5

Q19) $\frac{10}{12}$

Q20) 0.3

Q21) 0.906, 0.609, 0.069

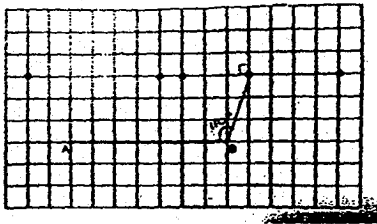
Q22) $\frac{7}{10}$

Q23) 47.81

Q24) $< d$

Q25) 5cm

Q26)



Q27) Northwest

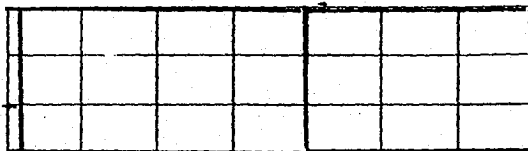
Q28) From canteen to playground (anti-clockwise):

$$5 \times 45^\circ = \underline{225^\circ}$$

$$Q29) 90^\circ - 21^\circ = 69^\circ$$

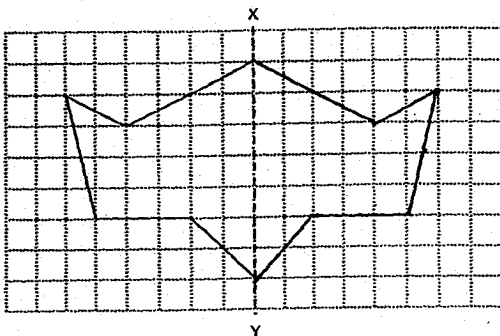
$$69^\circ \div 3 = \underline{23^\circ}$$

Q30) S Y R



P X Q

Q31)



Q32) Vol. of water at 8am $\rightarrow$ 180litres

Vol. of water at 2pm $\rightarrow$ 60litres

Vol. of water flowed out $\rightarrow$ 180litres $-$ 60litres $=$ 120litres

Q33) $\frac{2}{7} \times 3 = \frac{6}{21}$

$$\frac{1}{3} \times 7 = \frac{7}{21}$$

$$\frac{21}{21} - \frac{6}{21} = \frac{15}{21}$$

$$\frac{15}{21} - \frac{7}{21} = \frac{8}{21}$$

Q34) $1438 \times 6 = 8628$

$$8628 + 3 = \underline{8631}$$

Q35) Area of 1 rectangle tile $\rightarrow 15 \times 7 = 105$

Area of 6 rectangle tiles $\rightarrow 105 \times 6 = 630$

Area of 1 square tile $\rightarrow 7 \times 7 = 49$

Total area $\rightarrow 630 + 49 = \underline{679\text{cm}^2}$

Q36) $\$0.80 \times 7 = \5.60

$$\$5.60 \div 4 = \underline{\$1.40}$$

Q37) 4units = 100min

$$1\text{unit} = 100\text{min} \div 4 = 25\text{min}$$

$$3\text{units} = 25\text{min} \times 3 = 75\text{min}$$

$$= 1\text{h}15\text{min}$$

$$250\text{pm} + 1\text{h}15\text{min} = \underline{4.05\text{pm}}$$

Q38) $36 = 6 \times 6$

$$10 - 6 = 4$$

Breath of rectangle $\rightarrow 4 \div 2 = 2$

Length of rectangle $\rightarrow 16 \div 2 = 8$

$6 \times 7 = 42$

$2 \times 5 = 10$

Perimeter of figure

$= 42 + 10 + 8$

$= \underline{60\text{cm}}$

Q39a) June

Q39b) $60 - 20 = \underline{40}$

Q39c) Not possible to tell > False

Q40a) Cost of 5 doughnuts $\rightarrow \$16.75 - \$12.50 = \underline{\$4.25}$

Q40b) Cost of 1 walnut cake $\rightarrow \$12.50 - \$4.25 = \$8.25$

Cost of 2 walnut cakes $\rightarrow \$8.25 \times 2 = \underline{\$16.50}$

Q41) $3726 - 1548 = 2178$

$2178 + 282 = 2460$

$2460 \div 4 = \underline{615}$

Q42) $\frac{5}{8} + \frac{1}{3} = \frac{15}{24} + \frac{8}{24} = \frac{23}{24}$

$\frac{23}{24} - \frac{3}{8} = \frac{23}{24} - \frac{9}{24} = \frac{14}{24}$

$\frac{14}{24} + \frac{2}{3} = \frac{14}{24} + \frac{16}{24} = \frac{30}{24} = 1\frac{6}{24} = 1\frac{1}{4}$

Q43a) Suppose all were laptops:

Total mass $\rightarrow 13 \times 1 = 13$

Extra mass $\rightarrow 27 - 13 = 14$

Difference in mass $\rightarrow 3 - 1 = 2$

No. of rice cookers $\rightarrow 14 \div 2 = \underline{7}$

Q43b) Total mass of rice cookers $\rightarrow 7 \times 3 = \underline{21\text{kg}}$

