



RULANG PRIMARY SCHOOL

Nurturing Competencies, Inspiring Excellence, Empowering Individuals
Scholars of Tomorrow

Established since 1930

Name : _____ ()

Level : Primary Four

Class : Primary 4 _____

Date : 30 October 2015

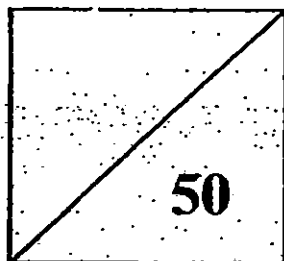
Setter : Mr Mazlan bin Ismael

SEMESTRAL ASSESSMENT 2

2015

MATHEMATICS

PAPER 1



TOTAL TIME FOR PAPER 1: 1 hour 15 minutes

30 questions

50 marks

- DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- READ ALL THE INSTRUCTIONS CAREFULLY.
- ANSWER ALL THE QUESTIONS.

Questions 1 to 10 carry 2 marks each. Questions 11 to 20 carry 1 mark each. For each question, four options are given. One of these is the correct answer. Make your choice (1, 2, 3 or 4) and shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (30 marks)

1. In which of the following numbers does the digit 4 stand for 400?

- (1) 4670
- (2) 6470
- (3) 6704
- (4) 7640

2. Which of the following is a multiple of 9?

- (1) 28
- (2) 19
- (3) 3
- (4) 36

3. How many one-fifths are there in 4 wholes?

- (1) $1\frac{1}{4}$
- (2) $\frac{4}{5}$
- (3) 5
- (4) 20

4. Find the value of $\frac{11}{12} - \frac{1}{3}$.

- (1) 1
- (2) $\frac{2}{3}$
- (3) $\frac{5}{6}$
- (4) $\frac{7}{12}$

5. Which of the following decimals is the greatest?

- (1) 0.257
- (2) 0.242
- (3) 0.026
- (4) 0.185

6. Express $\frac{58}{100}$ as a decimal.

(1) 0.508

(2) 0.058

(3) 0.58

(4) 5.08

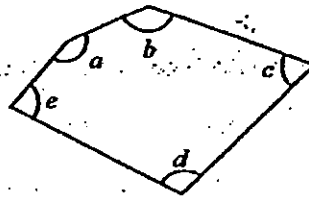
7. In the figure below, which of the following statements is correct?

(1) $\angle a$ is smaller than 90°

(2) $\angle b$ is greater than 90°

(3) $\angle c$ is greater than 90°

(4) $\angle d$ is equal to 90°



8. Bala was facing north at first. He made a 90° anti-clockwise turn. After that, he made a $\frac{3}{4}$ -turn in the clockwise direction. Which direction was he facing in the end?

(1) North

(2) South

(3) East

(4) West

9. James watched a movie which lasted for 1 h 18 min. The movie ended at 11.53 p.m. What time did the movie start?

(1) 1.11 a.m.

(2) 1.11 p.m.

(3) 10.35 a.m.

(4) 10.35 p.m.

10. Ali took a bus from Singapore to Malacca at 10.45 p.m. The bus ride took 4 h 40 min. What time did he reach Malacca?

(1) 02.25

(2) 03.25

(3) 14.25

(4) 15.25

11. Gina has gathered some data on 4 quadrilaterals (A, B, C and D), which is recorded in the table shown below.

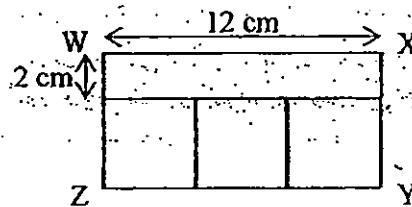
	A	B	C	D
Opposite sides are equal	✓	✓	✓	✓
Opposite sides are parallel	✓	✓	✓	✓
All angles are right angles	✗	✓	✗	✓
All sides are equal	✗	✗	✓	✓

Which one of the figures is a rectangle?

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

12. The figure below is made up of 3 identical squares and a rectangle. The length of the rectangle is 12 cm. Its breadth is 2 cm. What is the length of XY?

- (1) 16 cm
- (2) 10 cm
- (3) 6 cm
- (4) 4 cm



13. A square farmland has an area of 36 m^2 . Find the perimeter of the farmland.

- (1) 9 m
- (2) 18 m
- (3) 24 m
- (4) 36 m

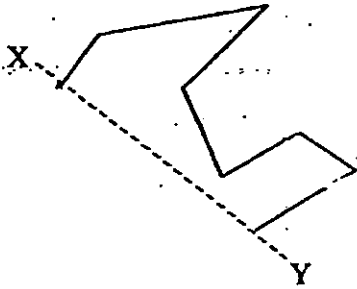
14. Alan had a stored value of \$6 in his Ez-link card. He used his Ez-link card to pay \$0.68 for a bus trip. What was the stored value in his Ez-link card after the bus trip?

- (1) \$0.62
- (2) \$0.74
- (3) \$5.31
- (4) \$5.32

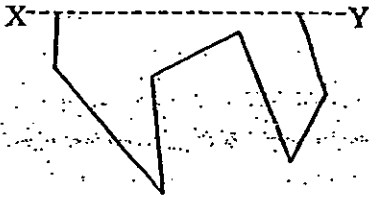
15. The total mass of three identical flower pots was 7.59 kg. What was the mass of each flower pot?

- (1) 2.05 kg
- (2) 2.41 kg
- (3) 2.50 kg
- (4) 2.53 kg

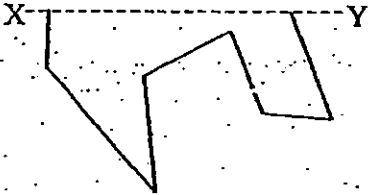
16. Which of the following is a symmetrical image of the given figure along line XY.



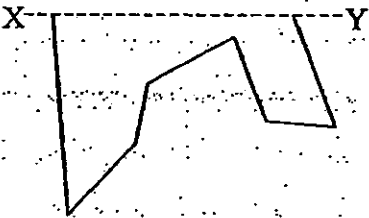
(1)



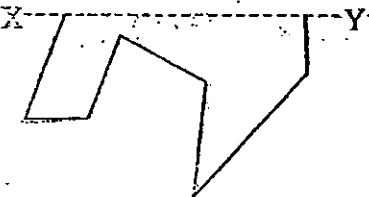
(2)



(3)

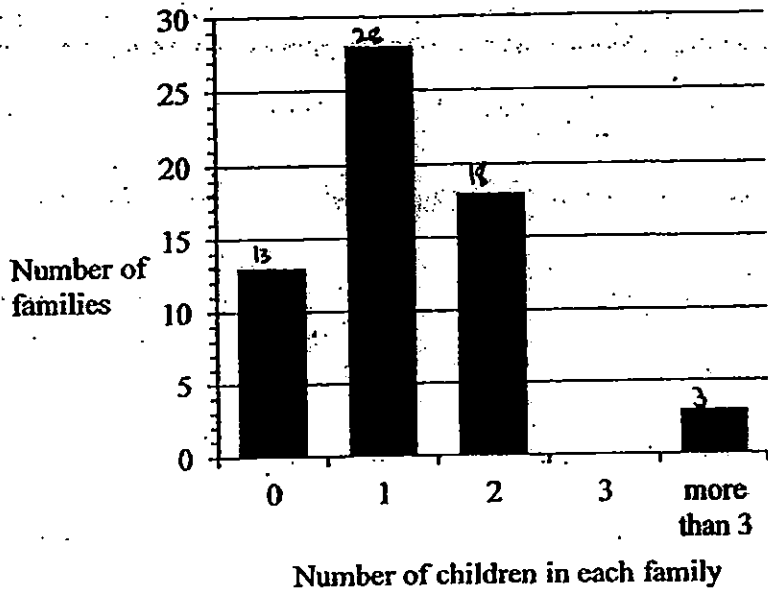


(4)



For Questions 17 to 19, please refer to the bar graph below.

The bar graph shows the survey results of all the families living in a block of flats.



17. How many families living in the block of flats have 2 or more children?

- (1) 18
- (2) 21
- (3) 24
- (4) 28

18. How many families live in the block of flats?

- (1) 49
- (2) 59
- (3) 62
- (4) 65

19. How many children live in the block of flats?

- (1) Between 49 and 73 children
- (2) More than 73 children
- (3) Exactly 73 children
- (4) Fewer than 73 children

9. Which of the following unit shapes cannot be tessellated?

(1)



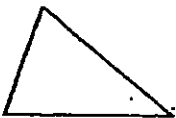
(2)



(3)



(4)



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

21. Write the missing number in the number pattern below.

2538, 2688, 2838, _____, 3138

Ans: _____

22. Round off 8747 to the nearest ten.

Ans: _____

23. Which two of the fractions below are in the simplest form?

$\frac{3}{4}$, $\frac{4}{12}$, $\frac{6}{8}$, $\frac{7}{10}$

Ans: _____ and _____

24. Arrange the following fractions from the greatest to the smallest.

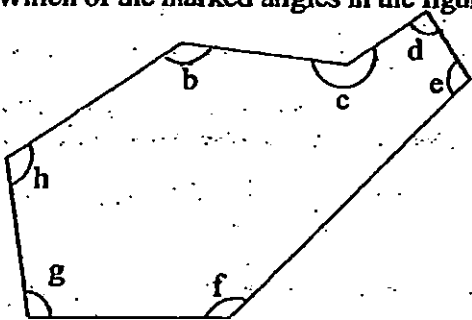
$\frac{1}{3}$, $\frac{5}{6}$, $\frac{7}{12}$

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

25. Find the value of $1 - \frac{1}{8} - \frac{1}{4}$. Give your answer in the simplest form.

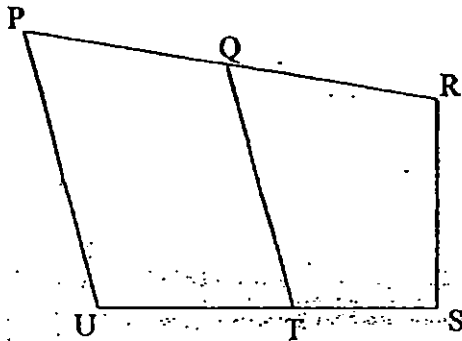
Ans: _____

26. Which of the marked angles in the figure below are right angles?



Ans: _____

27. In the figure, one of the lines is parallel to PU. Which line is parallel to PU?



Ans: _____

28. Write 7 hundredths in figures.

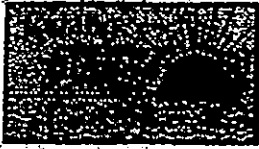
Ans: _____

29. $8.6 - 0.95 =$ _____

Ans: _____

30. Mr Chia left home for work at 7.45 a.m. He reached home at 6.35 p.m. that evening. How long was he away from home on that day?

Ans: _____ h _____ min



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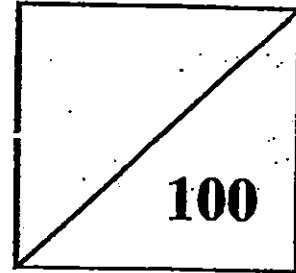
Total Marks
Papers 1 & 2

Level : Primary Four

Class : Primary 4

Date : 30 October 2015

Setter : Mr Mazlan bin Ismael

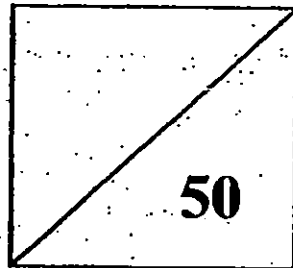
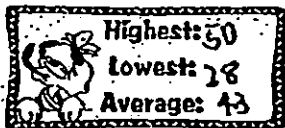


SEMESTRAL ASSESSMENT 2

2015

MATHEMATICS

PAPER 2



TOTAL TIME FOR PAPER 2: 1 hour 30 minutes

18 questions

50 marks

- DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- READ ALL THE INSTRUCTIONS CAREFULLY.
- ANSWER ALL THE QUESTIONS.

Questions 1 to 10 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

1. A piece of ribbon is 157 cm long. Find the total length of 76 such ribbons.

Ans: _____ cm

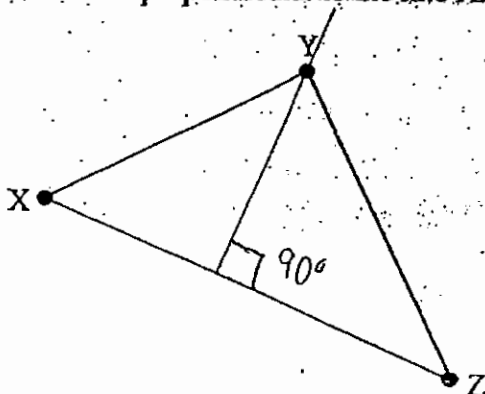
2. Caili used $\frac{4}{5}$ kg of flour to bake a chocolate cake and $\frac{7}{10}$ kg of flour to bake a butter cake. How much flour did Caili use to bake both the cakes?

Ans: _____ kg

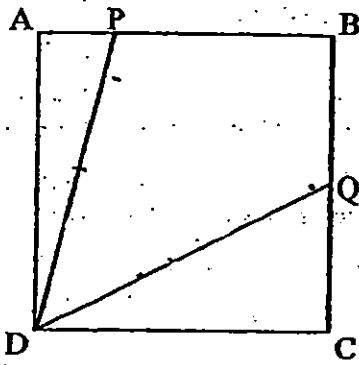
3. A group of scouts was facing the west. They made a 90° anti-clockwise turn and continued their journey. After travelling for some time, they made a 180° clockwise turn. Which direction were they facing in the end?

Ans: _____

4. Draw a line perpendicular to the line XZ, and passing through the point Y.



5. In the figure below, ABCD is a square. $\angle ADQ$ is 60° and $\angle PDC$ is 75° . Find $\angle PDQ$.



Ans: _____

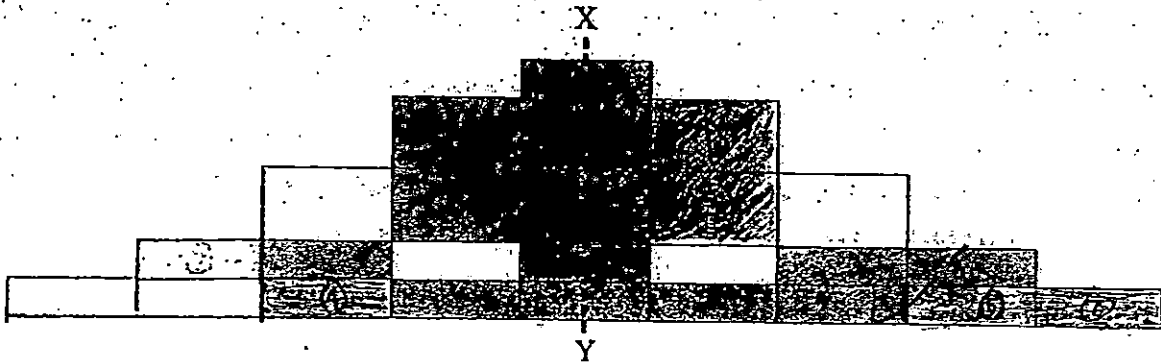
6. The perimeter of a rectangle is 72 cm. Its length is 26 cm. Find its breadth.

Ans: _____ cm

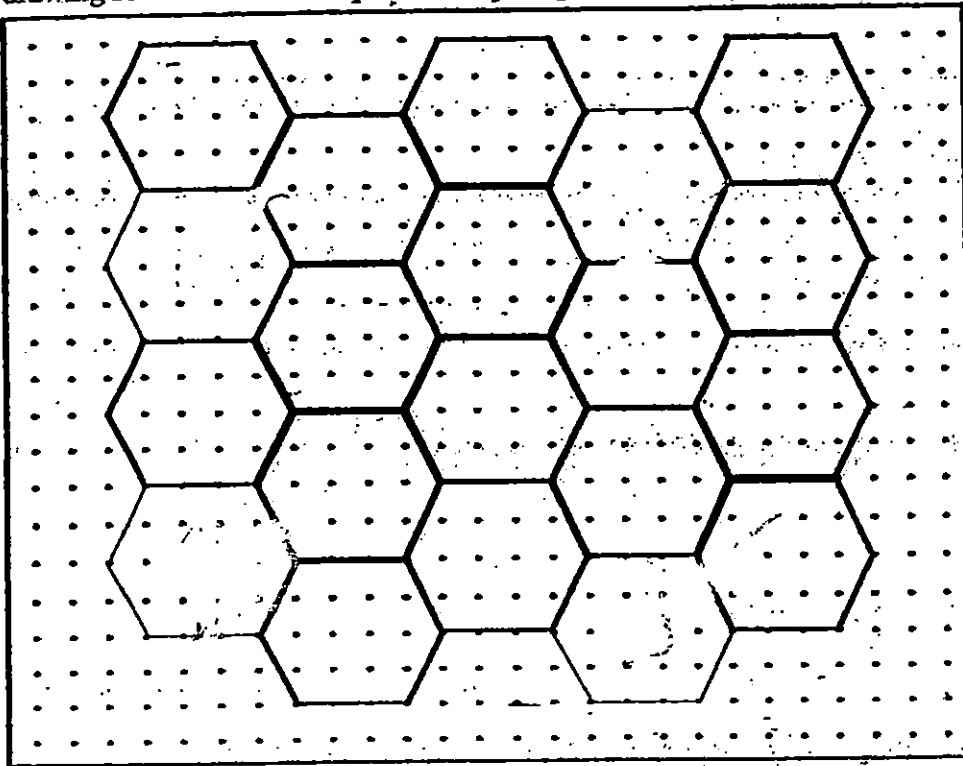
7. Peter took 20 min to warm up before jogging around his estate for 1 h 47 min. He stopped jogging at 10.07 a.m. What time did he start the warm-up?

Ans: _____ a.m.

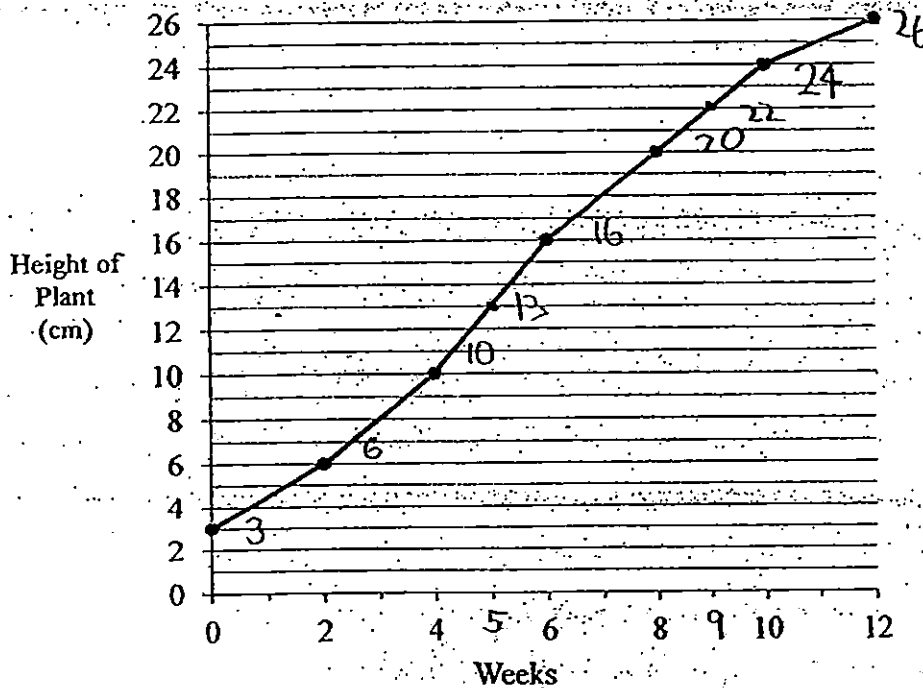
8. In the figure below, Line XY is the line of symmetry. Shade 6 more rectangles to make the figure symmetrical.



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



10.



The line graph above shows the height of Karen's plant over 12 weeks. What was the increase in the height of the plant from Weeks 5 to 9?

Ans: _____ cm

For Questions 11 to 18, show your working clearly and write your answers clearly in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question. (30 marks)

11. Mr Chua gave a total of \$2436 to his three children. The eldest child received three times as much money as the youngest child. The second child received twice as much money as the youngest child. What was the amount of money given to his eldest child?

Ans: _____ [3]

12. Every day, a bakery uses 84 kg of flour and 98 kg of mixed fruits to bake fruitcakes. What is the total mass of flour and mixed fruits used to make fruitcakes in 29 days?

Ans: _____ [3]

13. Karin has to collect 2 kg of old newspapers for a recycling project. She collected $\frac{1}{4}$ kg from her relatives and $\frac{1}{4}$ kg from her neighbours. How many more kilogrammes of old newspapers must she collect?

Ans: _____ [3]

14. Mrs Tay baked some cookies. She gave $\frac{2}{5}$ of the cookies to her neighbour and 30 cookies to her friend. She had 69 cookies left. How many cookies did she bake?

Ans: _____ [3]

15. The figure below is made up of 2 identical rectangles overlapping each other. Each rectangle has an area of 96 m^2 . The overlapping portion is a 3-m square.
- (a) What is the area of the figure?
 - (b) What is the perimeter of the figure?

Ans: (a) _____ [2]

(b) _____ [2]

16. 11.08 kg of clay were used in a pottery class. 2.68 kg of the clay were used by the instructor for the demonstration. The remaining clay was then shared equally among 7 pupils.

(a) How many kilogrammes of clay were shared by the 7 pupils?

(b) How many kilogrammes of clay did each pupil get?

Ans: (a) _____ [2]

(b) _____ [2]

17. 6400 pencils were sold in packets of 2 or 4. There was a total of 2400 packets sold.
How many packets of 2 pencils and how many packets of 4 pencils were sold?

Ans: _____ packets of 2

_____ packets of 4 [5]

18. Mrs Lim paid \$86.10 to purchase tickets for a charity concert for 2 adults and 3 children. Mrs Goh bought tickets for 2 adults and 7 children for the same concert. A ticket for an adult cost \$22.50.

(a) How much did a ticket for a child cost?

(b) How much more did Mrs Goh pay for the tickets than Mrs Lim?

Ans: (a) _____ [3]

(b) _____ [2]



EXAM PAPER 2015

LEVEL : PRIMARY 4
SCHOOL : RULANG PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	4	4	1	3	2	2	4	2
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	3	3	4	4	2	2	3	2	3

Q21. 2988 Q22. 8750 Q23. $\frac{3}{4}$ and $\frac{7}{10}$

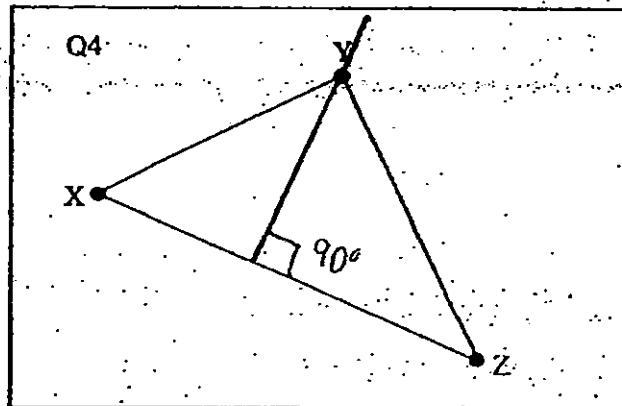
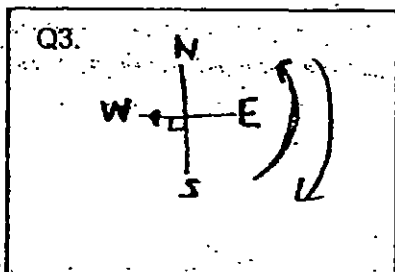
Q24. $\frac{5}{6}$ (greatest), $\frac{7}{12}$, $\frac{1}{3}$ (smallest)

Q25. $\frac{5}{8}$ Q26. Angle d Q27. QT Q28. 0.07 Q29. 7.76

Q30. 10h 50min Q1. 11 932cm $157 \times 76 = 11932$

Q2. $1\frac{1}{2}$ kg $\frac{4}{5} \times 2 = \frac{8}{10}$, $\frac{7}{10} + \frac{8}{10} = \frac{15}{10} = 1\frac{5}{10} = 1\frac{1}{2}$

Q3. North Q4. SEE PICTURE Q5. $45^\circ 90 - 60 = 30$, $75 - 30 = 45$

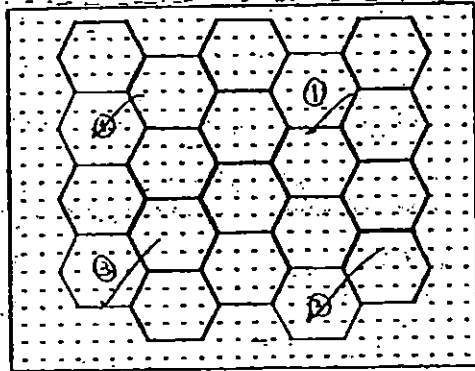


Q6. 10cm $\rightarrow 26 \times 2 = 52$; $72 - 52 = 20$, $20 \div 2 = 10$

Q7. 8a.m Q8. SEE PICTURE

8. In the figure below, Line XY is the line of symmetry. Shade 6 more rectangles to make the figure symmetrical.

Q9. SEE PICTURE



Q10. $9\text{cm} \rightarrow 22-13=9$

Q11. $\$1218 \rightarrow 6 \text{ units} \rightarrow 2436 \div 6 = 406, 3 \text{ units} \rightarrow 406 \times 3 = 1218$

Q12. 5278kg

$1 \text{ day} \rightarrow 841 + 98 = 182, 2 \text{ days} \rightarrow 182 \times 29 = 5278$

Q13. $1\text{kg } 500\text{g}$

$2\text{kg} \rightarrow 2000\text{g}$

$1\text{kg} \rightarrow 1000\text{g}$

$\frac{1}{4}\text{kg} \rightarrow 1000 \div 4 = 250$

$2000 - 500 = 1500$

Q14. 165 cookies

$5-2=3, 3 \text{ units} \rightarrow 69+30=99,$

$1 \text{ unit} \rightarrow 99 \div 3 = 33, 5 \text{ units} \rightarrow 33 \times 5 = 165$

Q15a. $183\text{m}^2 \rightarrow 3 \times 3 = 9, 96 - 9 = 92, 87 + 96 = 183$

Q15b. $68\text{m} \rightarrow 8-3=5, \text{Length of rectangles } 96 \div 8 = 12, 12-3=9$

Q16a. $8.40\text{kg} \rightarrow 11.08 - 2.68 = 8.40$

Q16b. $1.2\text{kg} \rightarrow 1 \text{ pupil} \rightarrow 8.40 \div 7 = 1.2$

Q17a. $1600 \text{ packets of } 2$

$2400 \times 2 = 4800, 6400 - 4800 = 1600,$

$4-2=2, 1600 \div 2 = 800 \text{ (packets of } 4),$

$2400 - 800 = 1600 \text{ (packets of } 2)$

Q17b. 800

$800 \times 4 = 3200$

$1600 \times 2 = 3200$

$3200 + 3200 = 6400$

EXAM PAPER 2015

LEVEL : PRIMARY 4

SCHOOL : RULANG PRIMARY SCHOOL

SUBJECT : MATHEMATICS

TERM : SA2

Q18a. \$13.70

2 adults $\rightarrow 22.50 \times 2 = 45$

3 children $\rightarrow 86.10 - 45 = 41.10$

1 child $\rightarrow 41.10 \div 3 = 13.70$

Q18b. \$54.80

$7 - 3 = 4$

$13.70 \times 4 = 54.80$