RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2015 SEMESTRAL ASSESSMENT 1

MATHEMATICS

Name : _____

Class : Primary 4 / :_____

Date   : 11 May 2015

BOOKLET A

20 Questions
40 Marks
Duration of Paper : 1 hour 45 minutes

<u>Note:</u>

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
   (a) Page <u>1</u> to Page <u>5</u>
   (b) Questions <u>1</u> to <u>20</u>

Questions 1 to 20 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 the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(40 marks)

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1   In the number 46 079, what is the value of the digit 6?

(1)   6 ones
(2)   6 tens
(3)   6 hundreds
(4)   6 thousands

2   The sum of the value of the digit 5 and the digit 8 in 57 893 is
_____.

(1)   580
(2)   5 080
(3)   50 080
(4)   50 800

3   9 072 ÷ 6 = _____

(1)   1 402
(2)   1 460
(3)   1 512·
(4)   1 549

4   Which of the following are common factors of 10 and 15?

(1)   1 and 5
(2)   1 and 10
(3)   3 and 5
(4)   3 and 15

5   14, 28, 35 and 56 are multiples of _____.

(1)   7·
(2)   2
(3)   5
(4)   4

The table below shows the number of toy cars in each box. Study it carefully and answer Questions 6 to 8.

Number of toy cars in each box	1	2	3	4	5	6
Number of boxes	26	35	24	18	22	?

6   How many boxes contain 5 toy cars only?

   (1)   18
   (2)   22
   (3)   24
   (4)   26

7   The number of boxes that contain 6 toy cars is twice of those that contain 4 toy cars. How many boxes would contain 6 toy cars?

   (1)   36
   (2)   40
   (3)   44
   (4)   125

8   How many boxes contain less than 3 toy cars?

   (1)   24
   (2)   59
   (3)   61
   (4)   85

9   What is the missing number in the box?

$$3\frac{3}{4} = \frac{\boxed{?}}{4}$$

   (1)   10
   (2)   12
   (3)   15
   (4)   33

10   Express 4 h 35 min as minutes.

     (1) 240
     (2) 275
     (3) 320
     (4) 435

11   A worker earns $950 a month. How much will he earn in a year?

     (1) $2 850
     (2) $9 500
     (3) $10 400
     (4) $11 400

12   A given number is a multiple of 6. It is between 10 and 20. It is also a factor of 24. What is the number?

     (1) 12
     (2) 14
     (3) 16
     (4) 18

13   Mrs Lim bought $8\frac{1}{2}$ kg of rice. Mrs Bala bought $2\frac{1}{6}$ kg of rice less than Mrs Lim. How much rice did Mrs Bala buy?

     (1) $5\frac{5}{12}$ kg

     (2) $6\frac{1}{3}$ kg

     (3) $6\frac{1}{2}$ kg

     (4) $10\frac{2}{3}$ kg

14   Catherine used 650 ml of lemon syrup and thrice as much water as lemon syrup to make lemonade. How much lemonade would Catherine get?

     (1) 1 300 ml
     (2) 1 950 ml
     (3) 2 600 ml
     (4) 2 603 ml

15   Study the diagram below and answer Questions 15 and 16.
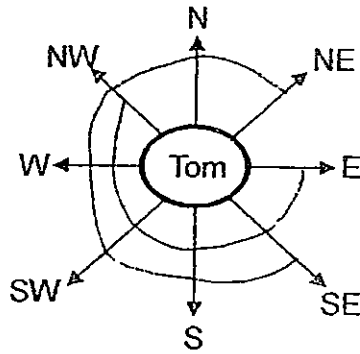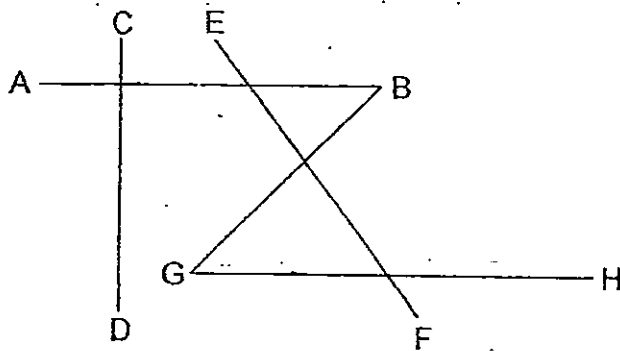

Tom is facing north-west. If he turns 225° anti-clockwise, he will be facing _____ .

(1) east
(2) south
(3) west
(4) south-east

16   Tom is facing south-east. He makes a _____-turn in a clockwise direction. He will now be facing north-east.

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

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

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

(4) complete

17   Line AB is parallel to Line _____ but is perpendicular to Line _____ .

(1) CD, EF
(2) CD, GH
(3) GH, EF
(4) GH, CD

18 Study the number pattern below. What is the missing number?

| 10 | 11 | 12 | 13 |

| 100 | 121 | 144 | ? |

(1) 165
(2) 169.
(3) 175
(4) 179

19 The mass of a sack of flour is 30 kg. The mass of a sack of potatoes is $\frac{2}{5}$ the mass of the sack of flour. What is the mass of the sack of potatoes?

(1) 6 kg
(2) 12 kg
(3) 18 kg
(4) 75 kg

20 Derrick stood in the centre. He was facing the school after he had turned an angle of 270° in an anti-clockwise direction . Where was he facing at first?

community centre

library   Derrick   school
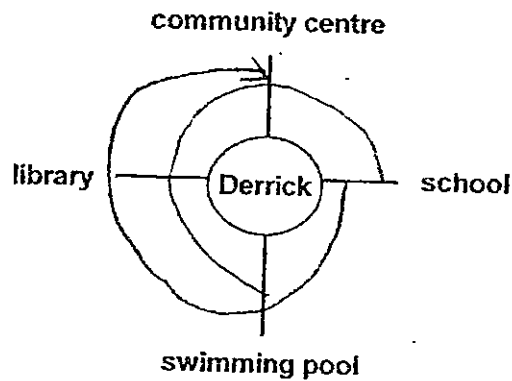
swimming pool

(1) library
(2) school
(3) swimming pool
(4) community centre

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BOOKLET B

28 Questions
60 Marks

In this booklet, you should have the following:
(a) Page <u>6</u> to Page <u>15</u>
(b) Questions <u>21</u> to <u>48</u>

MARKS

	OBTAINED	POSSIBLE
BOOKLET A		40
BOOKLET B		60
TOTAL		100

Parent's Signature : _____

Questions 21 to 30 carry 1 mark each. Questions 31 to 40 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.

(30 marks)

21   Write thirty-eight thousand, four hundred and six in numerals.

Ans: _____

22   ☆ x 9 = 2 214

Find the value of ☆

Ans: _____

23   What are the first 2 common multiples of 5 and 6?

Ans: _____ and _____

24   What fraction of the shapes in the box is ● ?

Ans: _____

4
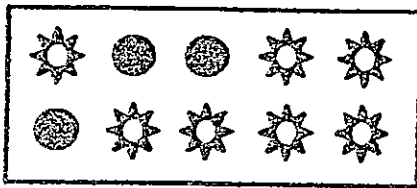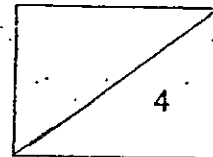
Sarah works at a bakery. The graph below shows the number of buns sold from Monday to Friday. Study the graph carefully and use the information to answer Questions 25 to 27.
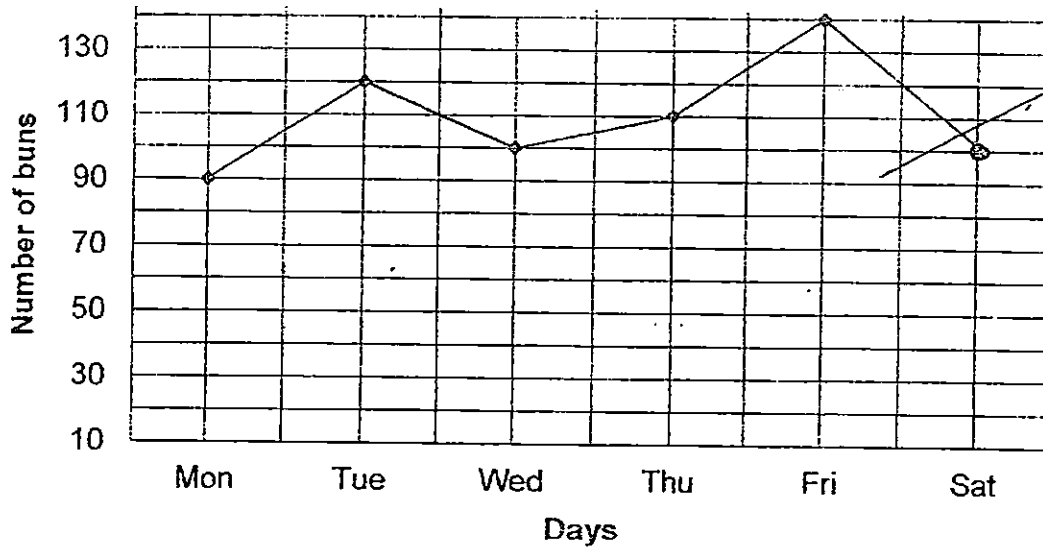
25 How many buns were sold on Tuesday?

Ans: _____

26 Find the difference between the greatest number of buns and the least number of buns sold.

Ans: _____

27 40 fewer buns were sold on Saturday than on Friday. How many buns were sold on Saturday? **Plot your answer on the graph above.**
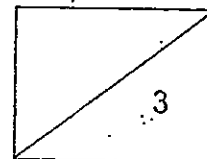
28 The figure below is made of a rectangle and 2 identical triangles. How many pairs of perpendicular lines are there in the figure?
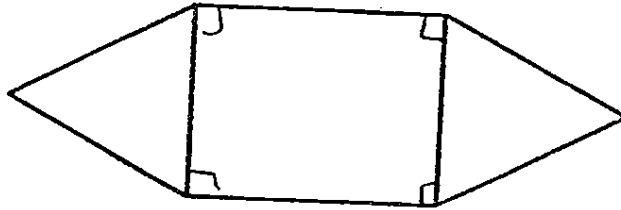
Ans: _____

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29 Susan used $\frac{4}{5}$ m of a ribbon to tie some presents. She used 4 times as much to decorate her boxes. What was the total length of ribbon she used?
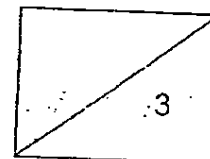
Ans: _____ m

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30 Refer to the square grid below and fill in the blanks with A, B, C, D or E.
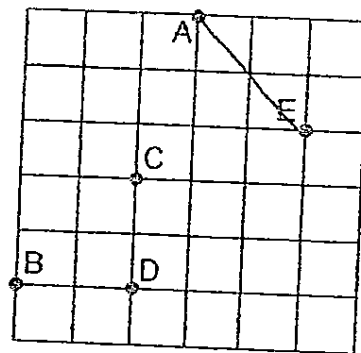
Point _____ is north-west of point _____ .

Ans: _____

31   Round off 63 092 to the nearest hundred.

Ans: _____

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32   The table below shows the entrance fees to S.E.A Aquarium. Mr Lim paid the promotion price for the tickets he bought.

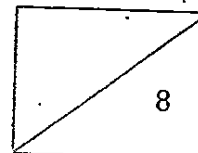|	Entrance fees (usual price)	Entrance fees (promotion price)
Child	$28	$15
Adult	$40	$25

How much will Mr Lim save if he buys 4 adult and 2 child tickets?

_____

---

33   4 similar chairs and 1 table cost $550.
1 chair and 1 table cost $325.
What is the cost of 1 chair?

Ans: $ _____

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34   John's age is between 20 and 40. His age now is a multiple of 4. In 2 years time, his age will be a multiple of 5. How old is John now?
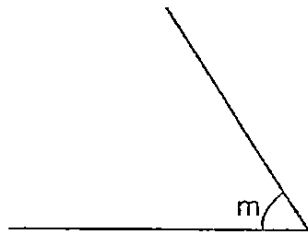
Ans: _____

8

35 What mixed number does the letter B represent? Express your answer in its simplest form.
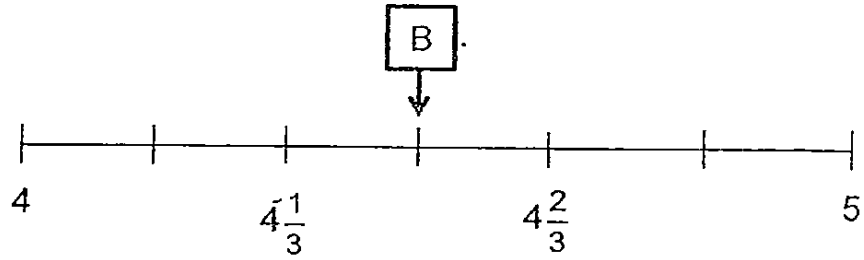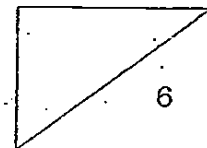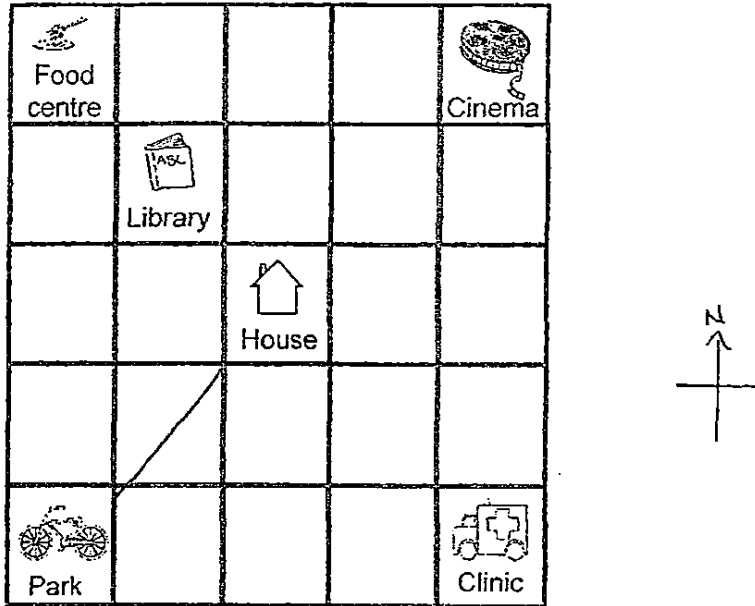

Ans: _____

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36 Measure ∠m.

Ans: _____ °

---

37 Draw a perpendicular line to RS through the point T.

Study the diagram below carefully and use it to answer Questions 38 and 39.

38   The _____ is south-west of the house.

Ans: _____

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39   3 students looked at the map above and made the following statements.

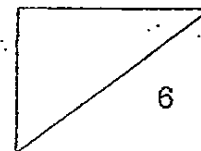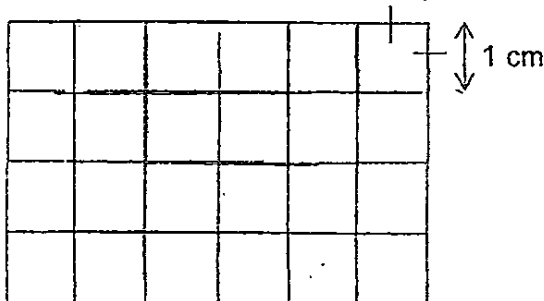Ben said, "The food centre is north-east of the library."

Cindy said, "The clinic is south-east of the house."

Pat said, "The cinema is north-west of the park."

Who made the correct statement? Write down the name of the person.

Ans: _____

---

40   Draw a square of side 3 cm on the grid.

Questions 41 to 48 carry 3 or 4 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided.

(30 marks)

41 There were 10 lamp posts of equal distance along a road. The distance between the first and the third lamp post was 16 m. What was the distance between the first and the tenth lamp post?

1st 2nd 3rd 10th

16 m
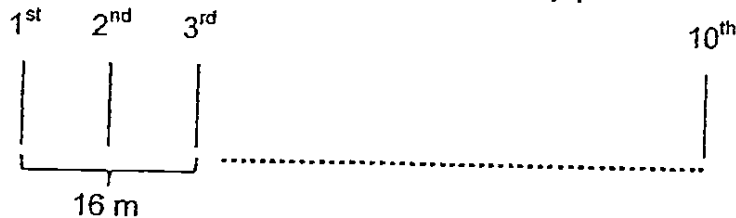
Ans : _____ [3]

42 Wilson bought 120 kg of rice. He used 76 kg of rice. He packed the remaining rice into 8 smaller bags and had some rice left over. How much rice was left over?
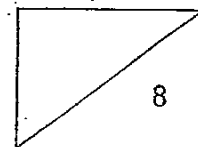
.Ans : _____ [3]

6

12
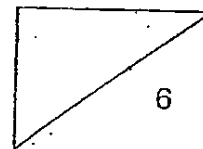
43   The total height of three girls, Clara, Martha and Nancy is 4 m.
      Clara is 15 cm shorter than Nancy. Martha is 10 cm taller than
      Nancy. Find the height of Nancy. Express your answer in m and cm.

                                     Ans : _____ [4]

_____

44 Shu Hua has $660. Pei Jun has $280. How much money must Shu Hua
    give to Pei Jun so that they have the same amount of money?

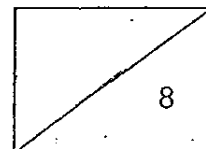   Ans : _____ [4]

8

45 Wendy had 280 more stickers than Mathew. After Mathew gave Wendy
    55 stickers, Wendy had four times as many stickers as Mathew. How
    many stickers did Wendy have at first?

Ans : _____ [4]

---

46 Annie had a sum of money. She spent $\frac{3}{8}$ of her money on clothes, $\frac{1}{4}$ of
    her money on storybooks and $24 on a bracelet. She had $156 left
   after spending on all the items. How much money did she have at first?

Ans : _____ [4]

8

47   The capacity of a container is $\frac{9}{12}$ ℓ. It contains $\frac{1}{6}$ ℓ of tea. If David pours

in another $\frac{1}{3}$ ℓ of tea into it, how many more litres of tea is needed to fill

the container to its brim? (Express your answer as a fraction in its simplest form).

Ans :_____ [4]

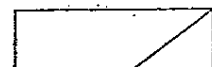48   Joel had a rectangular piece of paper. He folded a corner of it as shown below.
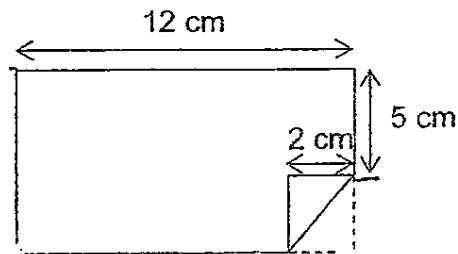
a) What was the perimeter of the piece of paper at first?

b) What was the area of the piece of paper at first?

Ans (a) :,_____ [2]

(b) : _____ [2]

End of paper

EXAM PAPER 2015
LEVEL : PRIMARY 4
SCHOOL : RED SWASTIKA SCHOOL
SUBJECT : MATHEMATICS
TERM : SA1

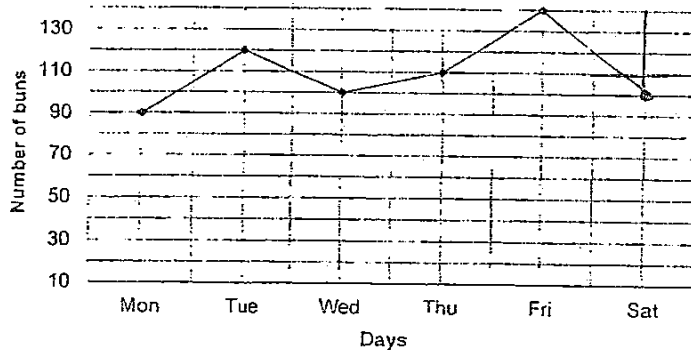| Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	4	3	1	1	2	1	3	3	2
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	1	2	3	1	3	4	2	2	4

Q21. 38 406 Q22. 246 Q23. 30 and 60 Q24. $\frac{3}{10}$

Q25. 120 Q26. 50 Q27. **SEE PICTURE**

Q28. 4 Q29. 4 box $\Rightarrow$ ⅘ x 4 = $\frac{16}{5}$, box + present $\frac{16}{5}$ + ⅘ = $\frac{20}{5}$ = 4

Q30. A , E Q31. 63 100

Q32. 86
USUAL
4 adults $\Rightarrow$ 40 x 4 = 160, 2 children 28 x 2 = 56, total 160 + 56 = 216
Promotion
4 adults $\Rightarrow$ 25 x 4 =100, 2 children 15 x 2 = 30, total 100+30=130
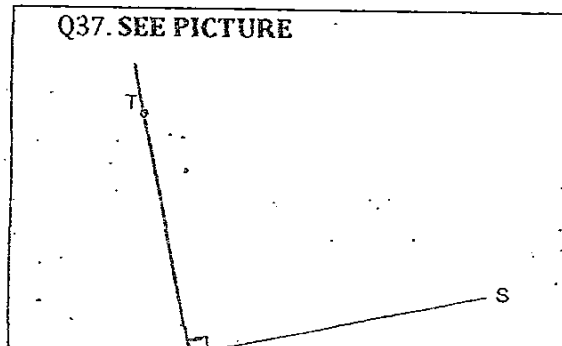
Q33. $75
4C + 1T = 550
1C + 1T = $225
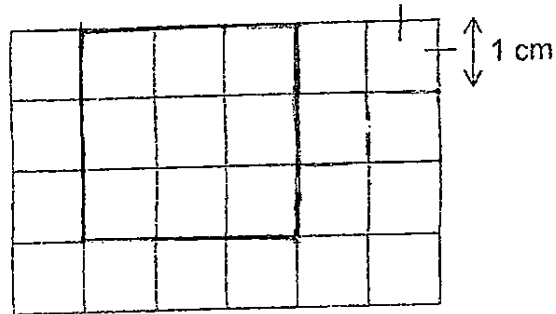3C $\Rightarrow$ 550 – 325 = 225, 1C $\Rightarrow$ 225 ÷3 = 75

Q34. 28 Q35. 4½ Q36. 56° Q37. SEE PICTURE

Q38. Park   Q39. Cindy   Q40. SEE PICTURE

Q41. 72m➔ 3 – 1 = 2 gap, 1 gap➔ 16 ÷2=8cm, 10 – 1 = 9 gap, 9➔ 9 x 8 =72

Q42. 4kg➔ 120 – 76 = 44, 44÷8=5kg R 4kg

Q43. 1m 35cm
4m➔ 400cm, 15 + 15 +10 = 40
400 – 40 = 360, 3u➔ 360 ÷3=120, N ➔120 + 15 = 135

Q44. $190
660 + 280 = 940
940÷2=470
660 – 470 = 190
PJ ➔280 + 190 = 470

Q45. 465
3 units➔ 55 + 280 =55=390
1 unit ➔390 ÷3=130
4u ➔130 x 4 = 520, 520 -55=465

Q46. $480
3u➔ 156 + 24 = 180
6u ➔180 x 2 = 360
1u ➔180÷23=60
2u ➔60 x 2=120
8u ➔360 + 120=480

Q47. ¼ litre
$\frac{1}{6} = \frac{2}{12}$, $\frac{1}{3} = \frac{4}{12}$
Total amount of tea in container ➔ $\frac{2}{12} + \frac{4}{12} = \frac{6}{12}$
Amount of tea ➔ $\frac{9}{12} - \frac{6}{12} = \frac{3}{12} = $ ¼

Q48a. 38cm ➔12÷12=7÷7 divide by 24 + 14 = 38

Q48b. 84cm² ➔ 12 x 7 = 84

THE END