![Rosyth School crest - READY TO SERVE]
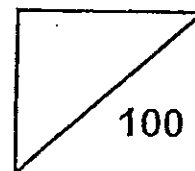
Rosyth School
Second Semestral Assessment 2013
Mathematics
Primary 4

Total [/ 100]

Name: _____

Class: Pr 4-_____ . Register No. _____   Duration: 1h 45 min

Date: 22nd Oct 2013   Parent's Signature: _____

<u>Instructions to Pupils:</u>
1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 3 parts, Sections A, B and C.
4. For questions 1 to 20 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).
5. ANSWER ALL THE QUESTIONS.

	Maximum	Marks Obtained
Section A	40	
Section B	40	
Section C	20	
Total	100	

This paper consists of 21 pages altogether (including the cover page).

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1

Section A (40 marks)

For questions 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct ovals (1, 2, 3 or 4) onto the Optical Answer Sheet provided. Each question carries 2 marks.

1. Fifty-five thousand, five hundred and five in figures is _____.

   (1) 5 005
   (2) 50 505
   (3) 55 505
   (4) 55 555

2. The value of the digit 4 in 84 039 is _____.
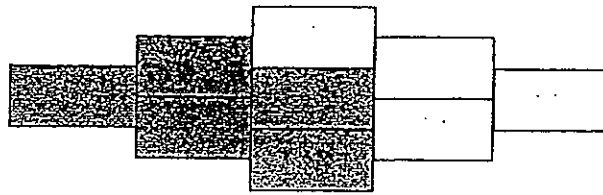
   (1) 40
   (2) 400
   (3) 4 000
   (4) 40 000

3. Complete the following number pattern.

   18 110, 19 120, 20 130, _____, 22 150, 23 160

   (1) 20 140
   (2) 21 000
   (3) 21 130
   (4) 21 140

4. The figure below is made up of identical rectangles. What fraction of the figure is shaded?

(1) $\dfrac{4}{9}$

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

(3) $\dfrac{5}{9}$

(4) $\dfrac{4}{5}$

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

(1) $\dfrac{3}{5}$

(2) $1\dfrac{2}{3}$

(3) 8

(4) 15

6. Express $\dfrac{39}{100}$ as a decimal.

(1) 0.309

(2) 0.039

(3) 0.39

(4) 3.9

7.	Abby bought $\frac{1}{3}$ kg of sugar and Bala bought $\frac{1}{4}$ kg of sugar. How much sugar do they have altogether?
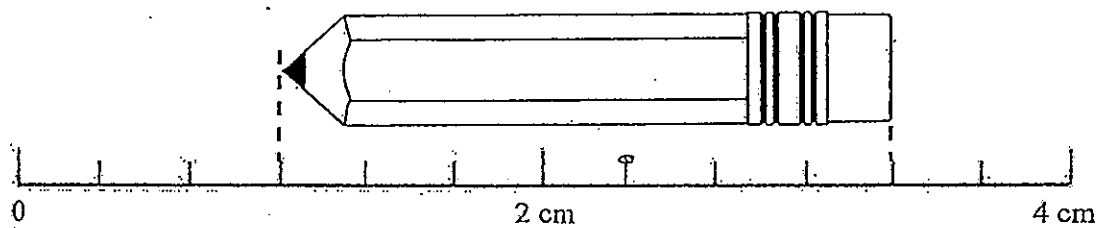
(1)	$\frac{1}{12}$ kg

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

(3)	$\frac{7}{12}$ kg

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

8.

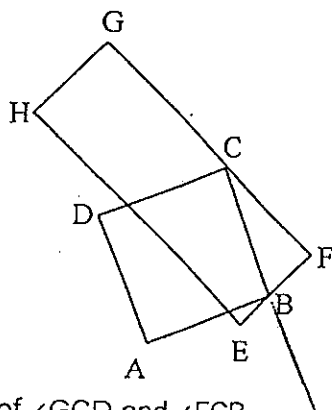What is the length of the pencil above?

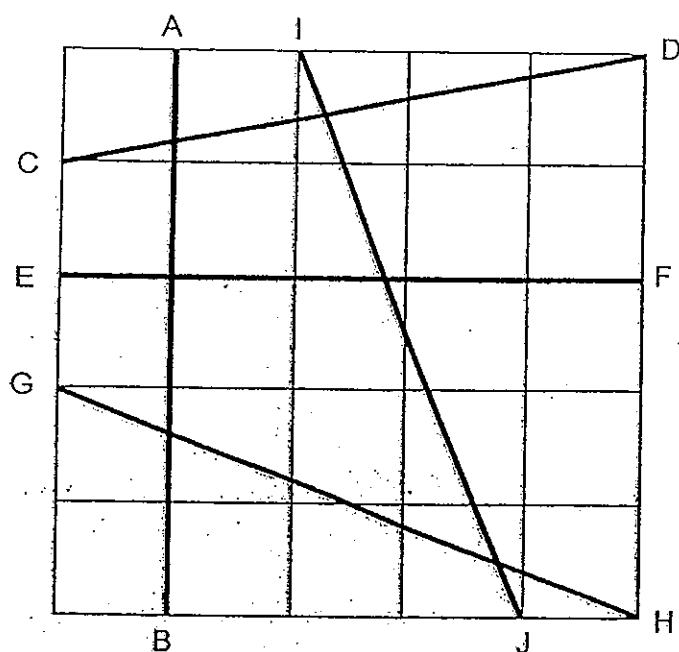(1)	$\frac{1}{2}$ cm

(2)	2 cm

(3)	$2\frac{1}{3}$ cm

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

9. The figure below is made up of a square ABCD and a rectangle EFGH.

Find the sum of ∠GCD and ∠FCB.

(1) 45°

(2) 90°

(3) 135°

(4) 180°

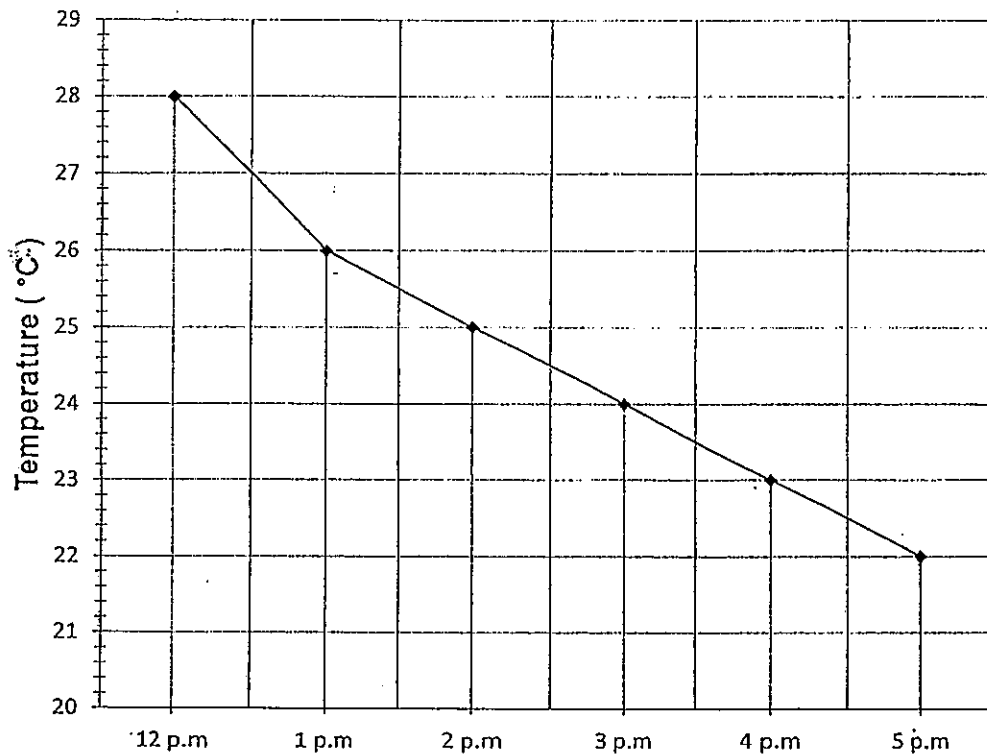10. All the lines drawn on the square grid below are straight lines.

Line AB is perpendicular to Line _____.

(1) CD

(2) EF

(3) GH

(4) IJ

5

Use the graph given below to answer questions 11 and 12 below.

The line graph below shows the temperature recorded on 3rd January 2013 from 12 noon to 5 p.m.

Daily Temperature

11. What is the temperature recorded at 3 p.m.?

(1)   22 °C
(2)   23 °C
(3)   24 °C
(4)   25 °C

12. At which one-hour interval was there a biggest drop in temperature?

(1)   12 p.m. to 1 p.m.
(2)   1 p.m. to 2 p.m.
(3)   2 p.m. to 3 p.m.
(4)   3 p.m. to 4 p.m.

13. $0.69 \div 3 =$ _____

    (1)   0.023

    (2)   0.23

    (3)   2.3

    (4)   23

14. Delana bought 8 cupcakes at $1.75 each. How much did she spend?

    (1) $8.25

    (2) $9.00

    (3) $12.40

    (4) $14.00

15. Enqi left home at 5.53 a.m. and reached her school at 6.17a.m. How many seconds did she take to get to school from her home?

    (1)   24 s

    (2)   600 s

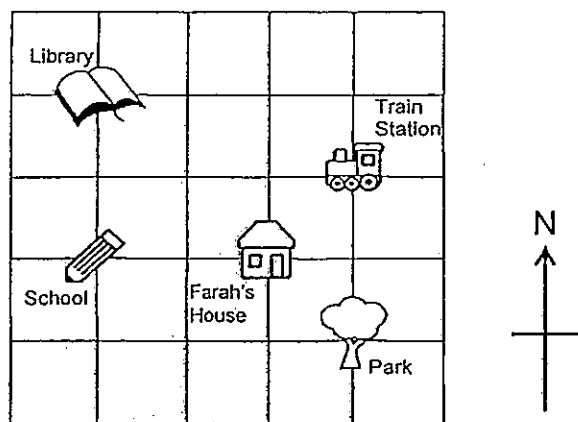   (3)   1 020 s

    (4)   1 440 s

16. Express the sum of $\frac{1}{2}$ and $\frac{3}{4}$ as a decimal.

    (1)   0.25

    (2)   0.75

    (3)   1.00

    (4)   1.25

17. Geraldine bought some apples for a picnic. She cut all the apples each into quarters. She then placed 5 slices of the cut apple into each container. If she prepared 8 such containers, how many apples did she buy?
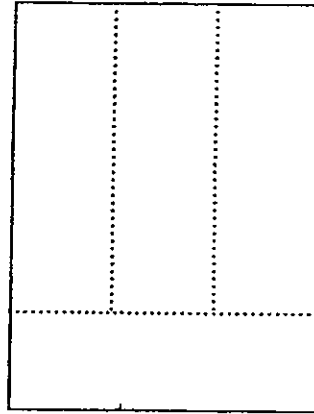
(1) 10
(2) 20
(3) 32
(4) 40

18. In the map given below, which place is northeast of Farah's house?

(1) Library
(2) Train Station
(3) Park
(4) School

19. The figure below is made up of 4 similar rectangular pieces of cardboard joined together. What is the perimeter of the figure if its area is 48 cm² ?

(1)   12 cm
(2)   24 cm
(3)   28 cm
(4)   36 cm

20. Each side of a square is 12 cm long. If a rectangle has a breadth of 4 cm and has the same area as the square, what would be the perimeter of the rectangle?

(1)   16 cm
(2)   36 cm
(3)   64 cm
(4)   80 cm

Section B (40 marks)

For questions 21 to 40, show your working clearly in the space below each question and write your answer in the answer boxes provided. Give your answers in the units stated. Each question carries 2 marks.

21. What is the value of the digit 7 in 73 289?

22. Round off 36 919 to the nearest hundred.

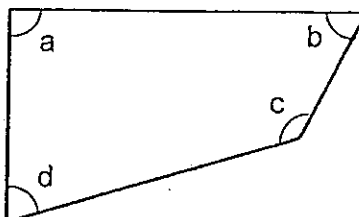23. Express $\dfrac{6}{9}$ in its simplest form.

24. Which two of the fractions below are smaller than $\dfrac{3}{5}$?

$$\frac{3}{4} \quad , \quad \frac{3}{7} \quad , \quad \frac{4}{5} \quad , \quad \frac{4}{11}$$

and

25. Find the value of $1 - \dfrac{1}{3} - \dfrac{1}{9}$.

26. In the figure, one of the angles is a right angle. Name the angle.

27. Write 7 tenths as a decimal.

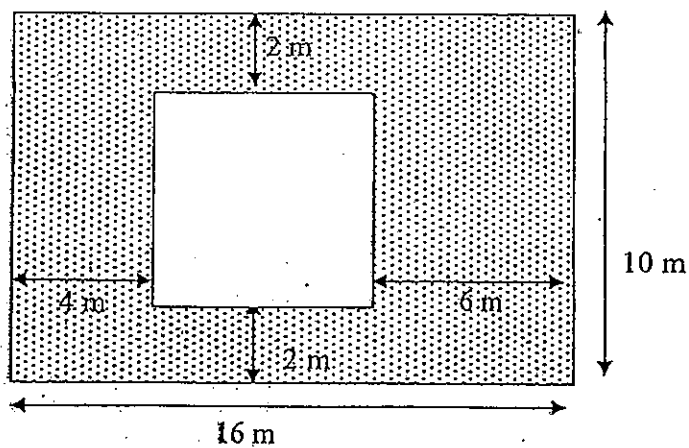28. Arrange the following numbers from the smallest to the greatest.

$\dfrac{3}{4}$, 0.749 , 0.751

_____ , _____ , _____

(smallest)   (greatest)

11

29. $13.97 + 6.08 =$ _____

30. Helen bought a pack of 30 sweets. She shared $\frac{2}{5}$ of the sweets equally with 3 of her friends. How many sweets did each person get?

31. Find the area of the shaded region.

_____ m²

Using the information given below, answer questions 32 and 33.

Each month, John receives an allowance from his parents. He spends the entire allowance on food, bus fare, savings and clothes. The amount he spends on his bus fare is half of the amount spent on food.
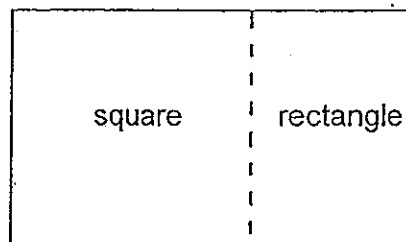
32. Using the information above, complete the bar graph below by shading the amount he spends on his bus fare:
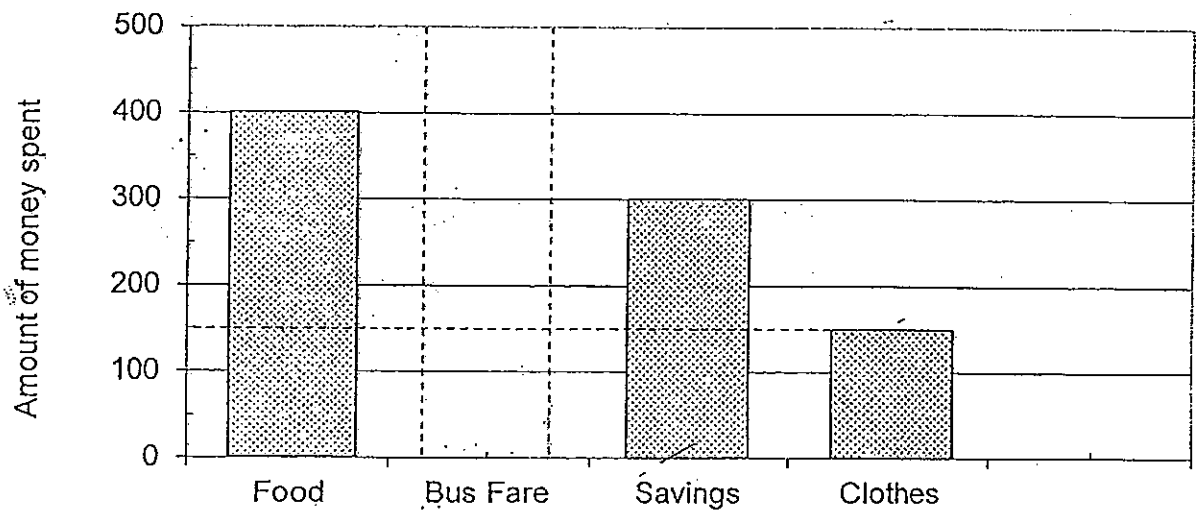
33. How much of his allowance is used for Clothes and Savings?

$

34. The figure is made up of a square of area 49 m² and a rectangle of perimeter 24 m. Find the perimeter of the figure.

m

35. A number has the digit 4 in the ones and hundredths place. The value of the digit in the tenths place is 0.9. What is this number when round off to the nearest one decimal place?

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┌─────────────────┐
│                 │
│                 │
└─────────────────┘
```

36. Roy bought 4 similar bottles of lemonade and poured them into a jug. He found that he had 6.48 litres of lemonade in the jug. How much lemonade did each bottle contain?

```
┌─────────────────┐
│           litres│
└─────────────────┘
```

37. The total mass of a box containing 5 glasses was 7.54 kg. When 3 glasses were taken out of the box, the total mass decreased by 3.609 kg. What is the mass of the empty box?

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┌─────────────────┐
│               kg│
└─────────────────┘
```

38. Irfan wanted to meet his friend at the cinema in town at 1455h. He left his home at 1350h but arrived at the cinema 8 minutes late. At what time should he leave his home in order to arrive exactly at 1455h?

```
┌─────────────────┐
│                h│
└─────────────────┘
```

39. Mr Lim was at the supermarket and had $30 only. After buying as many boxes of cereals as possible, how much money had he left?

Sale! Now
$4.98 per box

$ _____

40. A pony is 6 times as heavy as a dog.
The dog is 62.5 kg lighter than the pony.
Find their total mass.

_____ kg

For questions 41 to 45, show your working clearly in the space below each question and write your answers in the blanks provided. The marks for each question or part question are given in the brackets.

41. Julius spent $\frac{1}{4}$ of his money on a bus ride to the mall and $\frac{5}{12}$ of his money on lunch. The taxi fare home would cost him $10. However, he needed $2 more if he wanted to take a taxi home. How much money did he have at first?
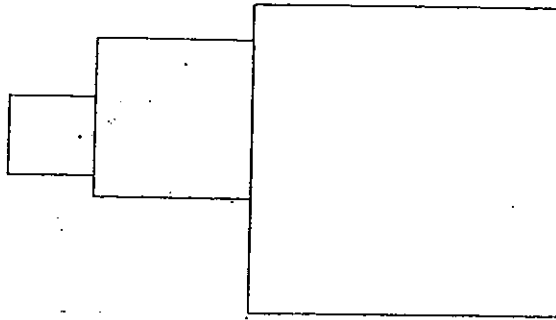
Answer: _____

43. Kelly bought 2 boxes of beads, 3 packets of sequins and 4 spindles of thread at $15.75. A box of beads and a packet of sequins cost $4.45. A packet of sequins and a spindle of thread cost $3.10. Find the cost of a box of beads.

Answer: _____

42. Mrs Tan bought some sweets. When she gave them equally to three pupils, she had 1 sweet remaining. When she gave them equally to four pupils, she had 3 sweets remaining. When she gave them equally to five pupils, she had 4 sweets remaining. What is the *least* possible number of sweets that she bought?
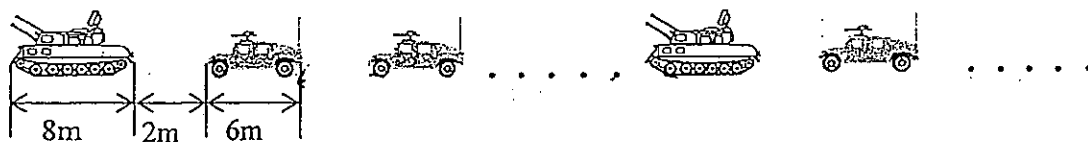
Answer: _____

44. The figure below is made up of squares of 3 sizes. The length of the smallest square is $\frac{1}{2}$ the length of medium square and the length of the medium square is $\frac{1}{2}$ length of the biggest square. If the perimeter of the largest square is 64cm, what is the area of the figure?

Answer: _____

45. During the National Day Parade, some tanks and jeeps were displayed in a single row. In between every two tanks, there were 3 jeeps. The distance between every vehicle was 2 m. The length of each tank was 8 m and the length of each jeep was 6 m. If the distance from the front of the first tank and the end of the last tank was 110 m, how many tanks were there on display?

8m   2m   6m

Answer: _____

EXAM PAPER 2013
SCHOOL : ROSYTH
SUBJECT : PRIMARY 4 MATHEMATICS
TERM : SA2

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

Q17	Q18	Q19	Q20
1	2	3	4

Q21) 70 000
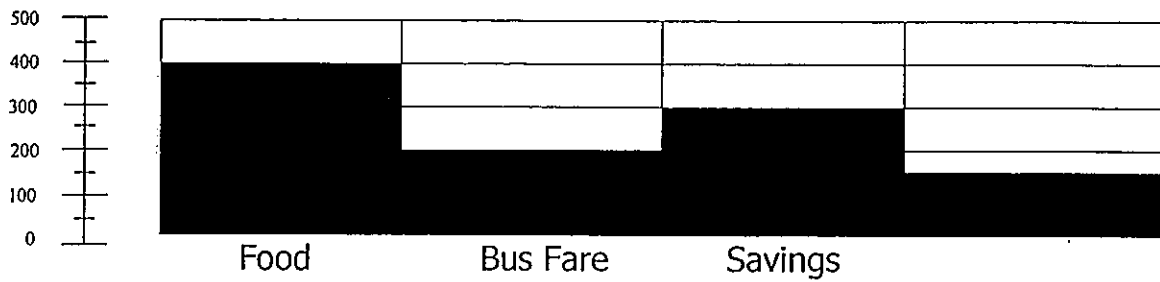Q22) 36 900
Q23) 2/3
Q24) 3/7 and 4/11
Q25) 5/9
Q26) a
Q27) 0.7
Q28) 0.749, 3/4, 0.751
Q29) 20.05
Q30) 3
Q31) 124

Q32)

Q33) 450
Q34) 38
Q35) 4.9
Q36) 1.62 :
Q37) 1.525
Q38) 1342
Q39) 0.12
Q40) 87.5

Q41) Bus → 1/4 = 3/12
    Lunch → 5/12
    Taxi → 1 − 3/12 − 5/12 = 4/12
    Taxi → 10 − 2 = 8

    4/12 = $8
    12/12 = 8 / 4 x 12 = 24
Ans: $24

Q42) Multiples of 3:   3,6,9,12,15,18,...
    Multiples of 3+1: 4,7,10,13,16,⑲,...
    Multiples of 4:   4,8,12,16,20,24,...
    Multiples of 4+3: 7,11,15,⑲,23,27,...
    Multiples of 5:   5,10,15,20,25,30,35,...
    Multiples of 5+4: 9,14,⑲,24,29,34
Ans: 19

Q43) $2B + 3S + 4T = 15.75$ --- ①

     $1B + 1S = 4.45$

     $1S + 1T = 3.10$ --- ②

     $2B + 2S = 4.45 \times 2 = 8.90$ --- ③

② + ③ $= 2B + 3S + 1T = 3.10 + 8.90 = 12.00$ --- ④

① − ④ $= 3T = 15.75 - 12.00 = 3.75$

    $1T = 3.75 / 3 = 1.25$
    $1S = 3.10 - 1.25 = 1.85$
    $1B = 4.45 - 1.85 = 2.60$

Ans: $2.60

Q44) Length of big square → $64 / 4 = 16$
    Length of medium square → $16 / 2 = 8$
    Length of small square $= 8 / 2 = 4$
  $16 \times 16 = 256$
  $8 \times 8 = 16$
  $4 \times 4 = 16$
  $256 + 16 + 16 = 336$

Ans: 336 cm^2

Q45) 1 tank → $1 \times 8 = 8$
    3 jeeps → $6 \times 3 = 18$
    4 gaps → $4 \times 2 = 8$
  Total $= 8 + 18 + 8 = 34$
    $110 - 8 = 102$
    $102 / 34 = 3$
    $3 + 1 = 4$

Ans: 4 sets