Class V Maths Sample Paper – Set 1

Max. Marks: 50 **Time Allowed: 2 hours**

General Instructions:

1. All questions are compulsory.

2. Number of marks carried by each question is indicated against it.

Q. No.	Questions	Marks
1.	**Fill in the Blanks** i) Each side of a square is 5 cm. Its area will be _____ square cm. (10 / 25) ii) If the length of a pencil is 15 cm and a rubber is 5 cm, then _____ rubbers placed in a line will be equal to the length of the pencil. (2 / 3) iii) One-fourth of 1 rupee is called _____. We can also write it as 0.25 _____. (paise/rupee) iv) The height of a giraffe can be up to 5.5 meters. It is one of the _____ animals in the world. (short/tall) v) A number that has only two factors, 1 and itself, is called a _____ number. (Prime / Composite / Odd)	5

2. **Match the correct answer** **5**

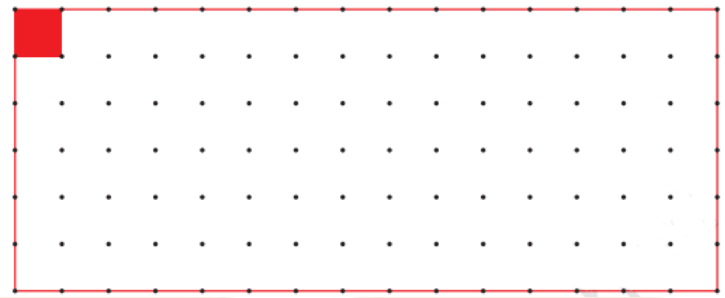
Question	Options
2 metres 30 centimetres	a. 3.5 rupees
4500 grams	b. 1.2 centimetres
3 rupees 50 paise	c. 230 centimetres
125 centimetres	d. 1.25 metres
12 millimetres	e. 4.5 kilograms

OR

If you have to write the area of the following things, in which of the following columns will you write it? Put a tick mark in the suitable column.

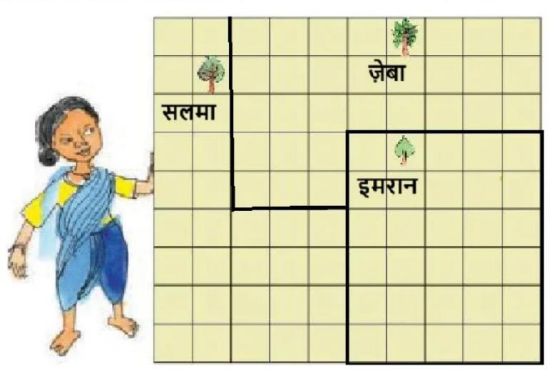
Object	Square Centimetre	Square Metre	Square Kilometre
A postage stamp			
A classroom floor			
A cricket field			

	A small notebook cover	
	The total area of a state	
3.	**Answer the following 4 questions:** i. How many millilitres are there in 1 litre? _____ ii. How many centimetres are there in 1 decimetre? _____ iii. How many seconds are there in 1 minute? _____ iv. How many grams are there in 1 quintal? _____ v. How many weeks are there in 1 year? _____ vi. How many hours are there in 1 day? _____	**4**
4.	**Solve these -** **i. 248 × 142** ----------	**4**

	ii. _____ 5640 ÷ 15 _____	
5.	 Measure the side of the red square on the dotted sheet. Draw here as many rectangles as possible using 12 such squares. How many rectangles could you make? _____ **OR** Each rectangle is made out of 12 equal squares, so all have the same area, but the length of the boundary will be different.  (i) Which of these rectangles has the longest perimeter? (ii) Which of these rectangles has the smallest perimeter?	**4**

6.	A farmer has a rectangular farm with a length of 36 meters and a width of 12 meters.  **Answer the following questions:** i. What is the perimeter of the farm? _____ ii. If the farmer plants trees along the boundary at every 3-meter distance, how many trees will he plant? _____ **OR** i. The farmer wants to divide his farm into two equal rectangular parts. What will be the area of each part? _____ ii. If he wants to cover the entire farm with grass at the cost of ₹ 80 per square meter, how much will he have to pay? _____	**6**
7.	**How many notebooks will be there in a box if its weight is -** (One notebook weighs 250 grams) i. 1 kg 500 grams? _____ ii. 12 kg? _____	**6**
8.	Nasreena is a farmer. She has divided her land among her three children – Salma, Zeba, and Imran. The land division is shown in the given picture.	**8**

If each small square represents 1 square meter, then answer the following questions:



i. What is the total area of the land owned by Nasreena?

A. 60 square meters

B. 80 square meters

C. 90 square meters

D. 100 square meters

ii. How much larger is Zeba's land compared to Imran's land?

A. 5 square meters

B. 10 square meters

C. 15 square meters

D. 20 square meters

iii. If a fence is required around Zeba's land, how much fencing wire will be needed?

A. 28 meters

	B. 30 meters C. 32 meters D. 36 meters **iv. Who has the smallest portion of land?** A. Salma B. Zeba C. Imran D. All have equal land	
9.	Rohan bought a wooden plank to build a rectangular box. He cut and joined the pieces to form a box. Answer the following questions based on this box. **i. What is the total number of faces in this box?** A. 4 B. 5 C. 6 D. 8 **ii. What is the total surface area of the box if each face is measured in square units?** A. 2 square units B. 4 square units	**8**

C. 6 square units

D. 8 square units

iii. If the box has a length of 15 cm, a width of 8 cm, and a height of 5 cm, what will be its volume?

A. 500 cubic centimeters

B. 600 cubic centimeters

C. 700 cubic centimeters

D. 800 cubic centimeters

iv. What is the shape of this box?

A. Cube

B. Sphere

C. Cylinder

D. Cuboid

Answer Key

1. i) Each side of a square is 5 cm. Its area will be 25 square cm. (25)

(Formula: Area of a square = side × side = 5 × 5 = 25 cm^2)

ii) If the length of a pencil is 15 cm and a rubber is 5 cm, then 3 rubbers placed in a line will be equal to the length of the pencil. (3)

(15 cm ÷ 5 cm = 3 rubbers)

iii) One-fourth of 1 rupee is called 25 paise. We can also write it as 0.25 rupee. (paise, rupee)

(1 Rupee = 100 Paise, ¼ of 100 = 25 Paise = 0.25 Rupee)

iv) The height of a giraffe can be up to 5.5 meters. It is one of the tall animals in the world. (tall)

v) A number that has only two factors, 1 and itself, is called a Prime number. (Prime)

(Examples: 2, 3, 5, 7, 11, etc.)

2.

Question	**Correct Option**
2 metres 30 centimetres	a. 230 centimetres
4500 grams	b. 4.5 kilograms
3 rupees 50 paise	c. 3.5 rupees

125 centimetres	d. 1.25 metres
12 millimetres	e. 1.2 centimetres

OR

Object	**Square Centimetre**	**Square Metre**	**Square Kilometre**
A postage stamp	✓		
A classroom floor		✓	
A cricket field		✓	
A small notebook cover	✓		
The total area of a state			✓

3. i) 1000 millilitres (1 L = 1000 mL)

ii) 10 centimetres (1 dm = 10 cm)

iii) 60 seconds (1 minute = 60 seconds)

iv) 100,000 grams (1 quintal = 100 kg = 100,000 g)

v) 52 weeks (1 year = 52 weeks)

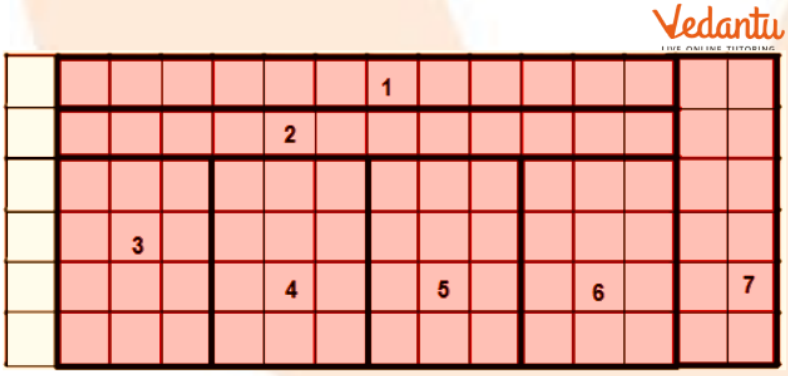
vi) 24 hours (1 day = 24 hours)

4. i)
$$\begin{array}{r} 248\times142 \\ 496 \\ 992 \\ 248 \\ \hline 35,216 \end{array}$$

ii) $5640 \div 15 = 376$

5. On the dotted sheet, the side of the square is 1 cm.

We can make 7 possible rectangles in the following figure.



We can make 7 rectangles.

- 2 rectangles are of size 1 × 12 centimetre.
- 1 rectangle is of size 2 × 6 centimetre.
- 4 rectangles are of size 3 × 4 centimetre

Hence, number of rectangles = 2 + 1 + 4 = 7

OR

i) To find the perimeter of the rectangle for 1 x 12 cm we have to do to following steps:

By using Formula : 2(length + breadth)

= 2(1 + 12)

= 2 × 13 = 26 cm

To find the perimeter of a rectangle for 2 × 6 cm we have to do to following steps:

By using Formula : 2(length + breadth)

= 2(2 + 6)

= 2 × 8 = 16 cm

To find the perimeter of the rectangle for 3 × 4 cm we have to do to following steps:

By using Formula : 2(length + breadth)

= 2(3 + 4)

= 2 × 7 = 14 cm

ii) The rectangle 3 × 4 cm has the smallest perimeter.

6. i) Perimeter = 2 × (Length + Width)

= 2 × (36 + 12)

= 2 × 48 = 96 meters

ii) Number of trees = Distance between trees

Perimeter $= \frac{96}{3} = 32$

OR

i) Area = Length × Width = 36 × 12 = 432 square meters

Since he divides it into two equal parts:

$\frac{432}{2} = 216$ square meters

ii) Total Cost = Area × Cost per square meter

= 432 × 80

= 34,560

7. i) Number of notebooks = Weight of one notebook

Total weight $= \frac{1500}{250}$

= 6 notebooks

ii) Number of notebooks = $\frac{12000}{250}$

= 48 notebooks

8. i) C. 90 square meters

ii) B. 10 square meters

iii) C. 32 meters

iv) C. Imran

9. i) C. 6

ii) C. 6 square units

iii) 600 cubic centimeters

iv) Cuboid