

# Mathematics

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(Chapter - 10) (Mensuration) (Practice Test 5)

(Class VI)

Time: 1 Hour 15 Minutes

M. M: 25

## General Instructions:

- This question paper contains four sections: A, B, C and D. Each part is compulsory.
- Section A has 5 MCQ of one mark each.
- Section B has 3 questions of two marks each.
- Section C has 3 questions of three marks each.
- Section D has 2 questions of five marks each, attempt any 1 out of 2.
- There is no negative marking.

### Section - A

1. An isosceles triangle has a measure of  $p$  units for its equal sides and  $q$  units for its unequal sides. What is its perimeter?  
(A)  $2(p + q)$  units      (B)  $2p + q$  units      (C)  $2q + p$  units      (D)  $2(q + p)$  units
2. Perimeter of the equilateral triangle having each side 6 cm is  
(A) 12 cm      (B) 18 cm      (C) 24 cm      (D) none of these
3. Perimeter of a regular pentagon of side 4 cm is:  
(A) 20 cm      (B) 24 cm      (C) 16 cm      (D) none of these
4. The area of square is  $100 \text{ cm}^2$ . Its side is  
(A) 20 cm      (B) 5 cm      (C) 10 cm      (D) 10.5 cm
5. The length and breadth of a rectangular plot are 900 m and 700 m respectively. If three rounds of fence are fixed around the field at the cost of ₹8 per metre, what is the total amount spent?  
(A) ₹768      (B) ₹7680      (C) ₹76800      (D) ₹768000

### Section - B

6. The side of a square is 12 m. Its perimeter is.....?
7. The shape of your class room blackboard is.....?
8. Which figure encloses more area: a square of side 2 cm; a rectangle of side 3 cm and 2 cm; An equilateral triangle of side 4 cm?

### Section - C

9. The area of rectangular piece of cardboard is  $36 \text{ sq. cm}$  and its length is 9 cm. What is the width of the cardboard?
10. Bob wants to cover the floor of a room 3 m wide and 4 m long by squared tiles. If each square tile is of side 0.5 m, then find the number of tiles required to cover the floor of the room.
11. Find the area in the square metre of a piece of cloth 1 m 25 cm wide and 2 m long.

### Section - D

12. What is the length of outer boundary of the park shown in Figure? What will be the total cost of fencing it at the rate of ₹20 per metre? There is a rectangular flower bed in the center of the park. Find the cost of manuring the flower bed at the rate of ₹50 per square metre.

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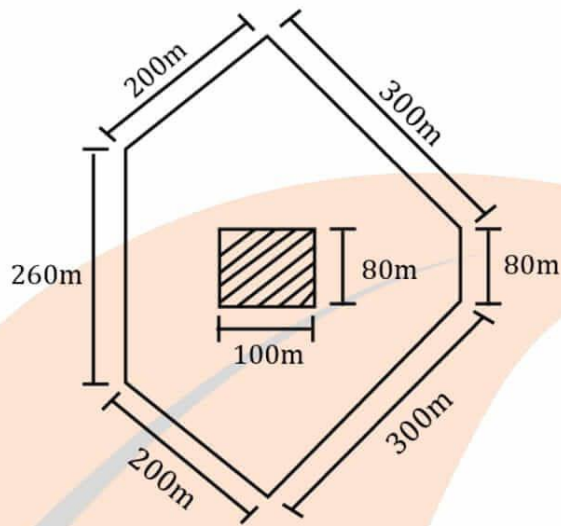
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# Mathematics

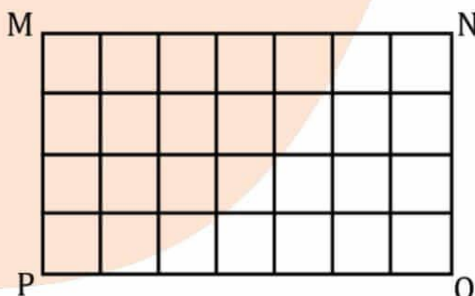
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13. Rectangular wall MNOP of a kitchen is covered with square tiles of 15 cm length. Find the area of the wall.



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(Chapter - 10) (Mensuration) (Practice Test 5)

(Class VI)

Answers

## Section - A

1.  $2p + q$  units
2. 18 cm
3. 20 cm
4. 10 cm
5. Rs. 76800

## Section - B

6. Perimeter of square =  $4 \times \text{side} = 48$  m
7. Rectangle
8. Rectangle, area =  $6 \text{ cm}^2$

## Section-C

9. Area of rectangle = length  $\times$  width  $\Rightarrow$  width = 4 cm

10. Area of the floor = Length  $\times$  Breadth = 12 sq. m

Area of one square tile = side  $\times$  side = 0.25 sq. m

Number of tiles =  $\frac{\text{Area of the floor}}{\text{Area of one tile}} = \frac{12}{0.25} = 48$  tiles

11. Area of the cloth = length of the cloth  $\times$  breadth of the cloth =  $2 \text{ m} \times 1.25 \text{ m} = 2.50 \text{ sq. m}$

## Section - D

12. Length of outer boundary of the park = 1340 m

Fencing the park at the rate of Rs. 20 per metre =  $20 \times 1340 = \text{Rs. } 26800$

Area of flower bed = 8000 sq. m

Cost of manuring = Rs. 400000

13. Area of each tile =  $15 \times 15 = 225 \text{ sq. cm}$

Area of 28 tiles =  $28 \times 225 = 6300 \text{ sq. cm}$

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