

Mathematics

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(Chapter - 10) (Mensuration) (Practice Test 3)

(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. Area of square with perimeter 40 m is
(A) 100 m^2 (B) 120 m^2 (C) 110 m^2 (D) none of these
2. Samuel wanted to erect some vertical stones along the boundary of his plot at a distance of 10 m each. If the length of the plot is 30 m and breadth is 15 m how many stones are required?
(A) 450 (B) 45 (C) 9 (D) 10
3. The perimeter of a rectangle is 170 m and its length are 50 m. What is its breadth?
(A) 80 m (B) 35 m (C) 55 m (D) 60 m
4. The side of a square is 8 cm. if its side is doubled, then its new perimeter is
(A) 48 cm (B) 32 cm (C) 40 cm (D) 64 cm
5. A room is 4 m long and 3m 50 cm wide. How many square meters of carpet is needed to cover the floor of the room?
(A) 14 m^2 (B) 14 m (C) 7 m^2 (D) none of these

Section - B

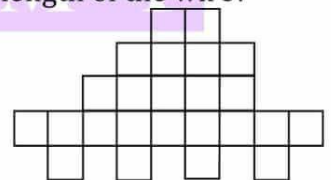
6. Find the distance travelled by Shaina is she takes three rounds of a square park of side 70 m.
7. Find the perimeter of a regular pentagon with each side measuring 3 cm.
8. Area of square plot of side 8 m.

Section - C

9. If the length of the diagonal of a square is 20 cm, then its perimeter is
10. If cost of fencing of a rectangular field at ₹7.50 per metre is ₹600, and the length of the field is 24 m, then the breadth of the field is
11. One tile of a square plot is 250 m, find the cost of levelling it at the rate of ₹2 per square meter.

Section - D

12. A wire is cut into several small pieces. Each of the small pieces is bent into a square of side 2 cm. If the total area of the small squares is 28 square cm, what was the original length of the wire?
13. What is the area of each small square in the Figure, if the area of entire figure is 96 sq. cm. Find the perimeter of the figure.



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Answers

Section - A

1. 100 m^2
2. 9
3. 35 m
4. 64 cm
5. 14 m^2

Section - B

6. Perimeter of square park = 280 m
Distance covered in one round = 280 m
Distance travelled in three rounds = $3 \times 280 = 840 \text{ m}$
7. This regular closed figure has 5 sides, each of length 3 cm
Perimeter of regular pentagon = $5 \times 3 = 15 \text{ cm}$
8. Side of square = 8 m
Area of square = side \times side = 64 sq. m

Section-C

9. Length of side of a square = $\frac{\text{length of diagonal}}{\sqrt{2}} \Rightarrow 10\sqrt{2}$

Therefore, perimeter of the square is $4 \times \text{side} = 4 \times 10\sqrt{2} \text{ cm} = 40\sqrt{2} \text{ cm}$

10. Perimeter of field = Cost of fencing/Rate of fencing = $600/7.50 = 80 \text{ m}$

Breadth of the field = perimeter/2 - length = 16 m

11. Area of square plot = side \times side = 62500 m^2

Cost of levelling the square plot = ₹125000

Section - D

12. Area of each piece = $2 \times 2 = 4 \text{ cm}^2$

Total area of small squares = 28 cm^2

$$x = 7$$

No. of pieces = 7

Perimeter of each piece with side 2 cm = 8 cm

Total length of wire = 56 cm

13. Area of total figure = 96 cm^2

Area of each small square = 4 cm^2

Side of each small square = 2 cm

Perimeter of the figure = 68 cm

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