

# Mathematics

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(Chapter - 10) (Mensuration) (Practice Test 4)

(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

- The length and breadth of a rectangle are 40 cm and 10 cm respectively. Its perimeter is  
(A) 140 cm                      (B) 160 cm                      (C) 100 cm                      (D) 120 cm
- Area of rectangle is  
(A) Length  $\times$  Breadth                      (B)  $2 \times$  (Length  $\times$  Breadth)  
(C) Length + Breadth                      (D)  $2 \times$  (Length + Breadth)
- Perimeter of square of side 6.7 cm is  
(A) 26.8 cm                      (B) 24.6 cm                      (C) 27.5 cm                      (D) none of these
- In a square shaped park, whose side measures 28 m, a rectangular pond is located at the centre with dimensions 3 m and 2 m. What is the area of the park excluding the pond?  
(A) 784 sq. m                      (B) 6 sq. m                      (C) 778 sq. m                      (D) 708 sq. m
- The area of rectangle is 630 sq. cm and its breadth is 15 cm. What is its length?  
(A) 40 cm                      (B) 60 cm                      (C) 42 cm                      (D) 35 cm

### Section - B

- Define perimeter of a closed figure.
- Find perimeter of rectangle whose length is 7 cm, and breadth is 5 cm.
- Find area of rectangle length is 4 m and breadth is 2m.

### Section - C

- Length of a rectangle is three times its breadth. Perimeter of the rectangle is 40 cm. find its length and width.
- Tahir measured the distance around a square field as 200 rods (lathi). Later he found that the length of this rod was 140 cm. Find the side of this field in metres.
- Bajinder runs ten times around a square track and covers 4 km. Find the length of the track

### Section - D

- Anmol has a chart paper of measure 90 cm  $\times$  40 cm, whereas Abhishek has one which measures 50 cm  $\times$  70 cm. Which will cover more area on the table and by how much?
- The perimeter of a square garden is 48 m. A small flower bed covers 18 sq. m area inside this garden. What is the area of the garden that is not covered by the flower bed? What fractional part of the garden is covered by flower bed? Find the ratio of the area covered by the flower bed and the remaining area.

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Answers

## Section - A

1. 100 cm
2. Length  $\times$  Breadth
3. 26.8 cm
4. 778 sq. m
5. 42 cm

## Section - B

6. The length of a boundary of a closed figure is known as perimeter.
7. Perimeter =  $2(l + b) = 24$  cm
8. Area =  $l \times b = 8$  m

## Section-C

9.  $2(l + b)$

$b = 5$  cm

Hence length =  $3 \times 5 = 15$  cm

10. Side of this field in metres =  $1.4 \times 200 = 280$  m

11. Bajinder runs 10 times around a square track and covers 4 km i.e.,  $10 \times 4a = 4$  km

$$40a = 4 \times 1000 \text{ m}$$

$$A = \frac{4 \times 1000}{40} \text{ m} = 100 \text{ m}$$

$$\text{Length of track} = 4a = 4 \times 100 \text{ m} = 400 \text{ m}$$

## Section - D

12. Area of Anmol's paper =  $90 \text{ cm} \times 40 \text{ cm} = 3600 \text{ cm}^2$

Area of Abhishek's paper =  $50 \text{ cm} \times 70 \text{ cm} = 3500 \text{ cm}^2$

Difference =  $3600 - 3500 \text{ cm}^2 = 100 \text{ cm}^2$ .

So, Anmol's paper covers  $100 \text{ cm}^2$  more area than Abhishek's paper.

13. Side = 12 m

Area of square garden = side  $\times$  side =  $144 \text{ m}^2$

Area of the garden that is not covered by the flower bed =  $144 - 18 = 126 \text{ m}^2$ .

Area of flower bed / Area of the square garden =  $1/8$

Ratio of area covered by the flower bed and remaining area =  $\frac{18}{126} = \frac{1}{7} = 1:7$

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