

## CHAPTER-6 | Perimeter and Area

QUIZ  
PART-05

1. What is the perimeter of a rectangular park of length 150 m and breadth 120 m?

- A. 270 m  
B. 420 m  
C. 540 m  
D. 600 m (C)

**Explanation:** Perimeter of rectangle =  $2 \times (150 + 120)$   
=  $2 \times 270 = 540$  m.

2. If fencing costs ₹40 per metre, the total cost for that park is:

- A. ₹18,600  
B. ₹20,600  
C. ₹21,600  
D. ₹22,600 (C)

**Explanation:** Total fencing cost =  $540 \times 40 = ₹21,600$ .

3. A 36 cm string is used to make a square. Each side will be:

- A. 6 cm  
B. 8 cm  
C. 9 cm  
D. 12 cm (C)

**Explanation:** A square has 4 equal sides, so each side =  $36 \div 4 = 9$  cm.

4. A 36 cm string is used to make an equilateral triangle. Each side will be:

- A. 10 cm                      B. 11 cm  
C. 12 cm                      D. 13 cm (C)

**Explanation:** An equilateral triangle has 3 equal sides, so each side =  $36 \div 3 = 12$  cm.

5. A 36 cm string is used to make a regular hexagon. Each side will be:

- A. 4 cm  
B. 5 cm  
C. 6 cm  
D. 7 cm (C)

**Explanation:** A hexagon with equal sides has 6 sides, so each side =  $36 \div 6 = 6$  cm.

6. Which shape gets the longest side from the same 36 cm string?

- A. Square  
B. Equilateral triangle  
C. Hexagon  
D. All are equal (B)

**Explanation:** Side lengths are 9 cm, 12 cm, and 6 cm. The equilateral triangle has the longest side.

7. A farmer's rectangular field is 230 m long and 160 m broad. Its perimeter is:

- A. 390 m                      B. 680 m  
C. 780 m                      D. 920 m (C)

**Explanation:** Perimeter =  $2 \times (230 + 160) = 2 \times 390 = 780$  m.

8. If the farmer fences the field with 3 rounds of rope, total rope needed is:

- A. 1560 m                      B. 2040 m  
C. 2160 m                      D. 2340 m (D)

**Explanation:** One round = 780 m, so 3 rounds =  $3 \times 780 = 2340$  m.

9. Which formula is used to find the fencing cost of a rectangle?

- A. length  $\times$  breadth  $\times$  rate  
B. perimeter  $\times$  rate per metre  
C. side  $\times$  side  $\times$  rate  
D. area  $\times$  rate per metre (B)

**Explanation:** Fencing is done along the boundary, so cost = perimeter  $\times$  rate per metre.

10. Which statement is correct?

- A. More number of sides always means longer side for same string  
B. Same string gives different side lengths for different shapes  
C. Square always has longest side  
D. Hexagon always has longest side (B)

**Explanation:** With the same total length, dividing it among different numbers of equal sides gives different side lengths.