

## Mensuration 1

1. If the perimeter of a square is 44m, what is its area?
  - A.  $121 \text{ m}^2$
  - B.  $256 \text{ m}^2$
  - C.  $121 \text{ m}^2$
  - D.  $224 \text{ m}^2$
2. If the Perimeter of square is 40 cm. What is the diagonal of square?
  - A.  $5\sqrt{2} \text{ cm}$
  - B.  $12\sqrt{2} \text{ cm}$
  - C.  $8\sqrt{2} \text{ cm}$
  - D.  $10\sqrt{2} \text{ cm}$
3. If the diagonal of a square is doubled, then how much time will be its area?
  - A. two times
  - B. four times
  - C. three times
  - D. same
4. A room is 5.2 meters in length and 2.0 meters in width. The least number of square tiles required to exactly cover its area is:
  - A. 96
  - B. 85
  - C. 75
  - D. 65
5. The ratio of the area of a square to that of the square drawn on its diagonal is:
  - A. 2 : 1
  - B. 1 : 2
  - C. 1 : 4
  - D. 1 : 1
6. The area of a square is  $144 \text{ cm}^2$ . What is the perimeter of the square formed with the diagonal of the original square as its side?
  - A.  $24\sqrt{2}$
  - B.  $48\sqrt{2}$
  - C. 48 cm
  - D. 24 cm
7. A rectangle has a perimeter of 60 meters. Its length is 6 meters shorter than four times its breadth. What is the area of the rectangle?
  - A.  $156.14 \text{ m}^2$
  - B.  $164.16 \text{ m}^2$
  - C.  $144 \text{ m}^2$
  - D.  $184.14 \text{ m}^2$
8. A rectangular field has its length and breadth in the ratio of 8 : 7 respectively. A man riding a bicycle, completes one lap of this field along its perimeter at the speed of 28.8 km/hr in 2.5 minutes. What is the area of the field ?
  - A. 79600 sq.m
  - B. 89600 sq.m
  - C. 99600 sq.m

D. 84600 sq. m

9. The width of a rectangle is 2 m less than its length. If the perimeter of the rectangle is 68 m, then what is the length (in metres) of the rectangle?

A. 20

B. 18

C. 16

D. None

10. The cost of carpeting a room 15 m long with a carpet of width 75 cm at Rs. 80 per metre is Rs.19200. Find the width of the room.

A. 12m

B. 14m

C. 9m

D. 11m