Choose the correct option:

1. If the perimeter of a square is $36\,cm$, then its area is

   (a) $6\,s\,cm$ (b) $9\,s\,cm$ (c) $18\,s\,cm$ (d) $81\,s\,cm$

2. If the area of a rectangular plot is $180\,sq.\,m$ and its length is $15\,m$, then its breadth is

   (a) $12\,m$ (b) $12\,cm$ (c) $60\,m$ (d) $9\,m$

3. If the area of a square is numerically equal to its perimeter, then the length of eac side is

   (a) 1 unit   (b) 2 units   (c) 3 units   (d) 4 units

4. The perimeter of a regular hexagon whose each side measures $5\,cm$ is

   (a) $10\,cm$ (b) $20\,cm$ (c) $15\,cm$ (d) $25\,cm$

5. The perimeter of a rectangular sheet is $100\,m$. If the length is $35\,m$, then its area is

   (a) $500\,sqm$ (b) $525\,sqm$ (c) $600\,sqm$ (d) None of these

Fill in the blanks

6. The area of a closed plane figure is measured in____.

7. The perimeter of a closed plane figure is the length of its____.

8. Region enclosed within the boundary of a figure is called____.

Write true or false

9. To find the cost of constructing a road, we find its area.

10. Centimetre is the unit of area.

11. Perimeter of an equilateral triangle $= 3x$ length of a side

Short/Long Answer Questions

12. Rohit runs ten times around a square track and covers $4\,km$. Find the length of the track.

13. Base of a tent is a regular hexagon of perimeter $60\,cm$. What is the length of each side of the base?

14. Find the cost of fencing the square park at ₹ $2/m$ if side of the park is $60\,m$?

15. Anmol has a chart paper $90\,cm \times 40\,cm$ whereas Abhishek has $50\,cm \times 70\,cm$. Which will cover more area on the table and by how much?

16. Manoj wants to cover the floor of a room $3\,m$ wide and $4\,m$ long by square 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?

Case Based Questions

17. The lawn in front of Molly's house is $12\,m \times 8\,m$ whereas the lawn in front of Dolly's house is $15\,m \times 5\,m$. A bamboo fencing is built around both the lawns. Lawns are also covered with artificial grass.

    (a) How much fencing is required for both?

    (b) Whose lawn requires more bamboo?

    (c) How many square metres of grass cover is needed for both the lawns?

    (d) Whose lawn requires more grass cover?

Source Based Questions

18.   You are given two pieces of bread

– Triangular shape with side $8cm, 6cm$, and $6cm$.

– Square shape of side $5cm$ Compare their perimeters.

19.   In an exhibition hall, there are 24 display boards each of length $1m 50cm$ and breadth $1m$. There is a $100m$ long aluminium strip which is used to frame these boards.

(a) How many boards will be framed using this strip?

(b) Find the length of the aluminium strip required for the remaining boards.

(c) How many square metres of cloth is required to cover all the display boards?

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