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Chapter 17: Area, Perimeter and Volume in Real Situations

Daily practice problems: 10 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. A room 6 m by 4 m is covered with square tiles of side 50 cm. How many tiles are needed?
2. Find the cost of fencing a rectangular field 40 m by 25 m at Rs 12 per metre.
3. A circular park has radius 14 m. Find its circumference and its area (take $\pi = \frac{22}{7}$).
4. A path 2 m wide runs around the outside of a garden 20 m by 15 m. Find the area of the path.
5. A tank is 2 m long, 1.5 m wide and 1 m deep. How many litres does it hold?
6. Find the area of the four walls of a room 5 m long, 4 m wide and 3 m high.
7. Find the cost of carpeting a floor 8 m by 5 m at Rs 150 per square metre.
8. A wire 44 cm long is bent into a circle. Find the radius (take $\pi = \frac{22}{7}$).
9. How many cubes of side 2 cm can be packed in a box 10 cm by 8 cm by 6 cm?
10. A cistern is 3 m long, 2 m wide and 1.5 m deep. It is filled at 300 litres per minute. How long does it take to fill?



Answer Key

1. 96.
2. Rs 1560.
3. 88 m and 616 square metres.
4. 156 square metres.
5. 3000 litres.
6. 54 square metres.
7. Rs 6000.
8. 7 cm.
9. 60.
10. 30 minutes (the volume is 9 cubic metres, which is 9000 litres).

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