Perimeter and Area

Standard difficulty · 20 questions · 40 marks · Time: 34 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. The perimeter of a rectangle 9 cm long and 5 cm wide is:
(a) 14 cm **(b)** 45 cm **(c)** 36 cm **(d)** 28 cm

2. The area of a square of side 40 cm is:
(a) 1600 cm^2 **(b)** 160 cm^2 **(c)** 80 cm^2 **(d)** 3200 cm^2

3. Area is measured in:
(a) litres **(b)** degrees
(c) square units, e.g. cm^2 **(d)** cm

4. The perimeter of an equilateral triangle of side 6 cm is:
(a) 36 cm **(b)** 12 cm **(c)** 18 cm **(d)** 24 cm

5. A square has a perimeter of 28 cm. Its side is:
(a) 7 cm **(b)** 14 cm **(c)** 28 cm **(d)** 11 cm

6. The area of a rectangle 15 m by 7 m is:
(a) 105 m^2 **(b)** 210 m^2 **(c)** 44 m^2 **(d)** 22 m^2

7. The perimeter of a regular octagon of side 10 cm is:
(a) 100 cm **(b)** 70 cm **(c)** 90 cm **(d)** 80 cm

8. Which has the larger area: a square of side 6 cm, or a rectangle 10 cm by 4 cm?
(a) both are equal **(b)** the square **(c)** the rectangle **(d)** cannot say

Section B — Short answer — 8 × 2 = 16 marks

9. Find the perimeter of a rectangular garden 12 m long and 11 m wide.

10. A rectangle has an area of 65 cm^2 and a length of 13 cm. Find its breadth.

11. Find the perimeter of a triangle with sides 12 cm, 12 cm and 4 cm.

12. The perimeter of a square is 68 cm. Find its area.

13. A rectangular card 18 cm by 10 cm has a square of side 2 cm cut out of one corner. Find the area of the card left.

14. Find the perimeter of a regular octagon with each side 19 cm.

15. The perimeter of a rectangle is 70 cm and its breadth is 8 cm. Find its length.

16. How many squares of side 1 cm fit inside a rectangle 12 cm by 7 cm?

Section C — Word problems — 4 × 4 = 16 marks

17. A rectangular field is 56 m long and 33 m wide. Fencing costs Rs 25 per metre. Find the cost of fencing it.

18. Neeraj runs 8 rounds of a square park of side 150 m. How far does he run? Give the answer in km.

19. A wall is 5 m long and 3 m high. It has a door 2 m high and 1 m wide. Painting costs Rs 25 per m^2. Find the cost of painting the wall (not the door).

20. A floor is 3 m long and 4 m wide. How many square tiles of side 20 cm are needed to cover it?

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Answer key

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Q	Answer	Working
1	**(d) 28 cm**	2 × (9 + 5)
2	**(a) 1600 cm^2**	40 × 40
3	**(c) square units, e.g. cm^2**	—
4	**(c) 18 cm**	3 × 6
5	**(a) 7 cm**	28 ÷ 4
6	**(a) 105 m^2**	15 × 7
7	**(d) 80 cm**	8 sides × 10
8	**(c) the rectangle**	square 36 cm^2, rectangle 40 cm^2
9	**46 m**	2 × (12 + 11) = 46
10	**5 cm**	65 ÷ 13 = 5
11	**28 cm**	12 + 12 + 4 = 28
12	**289 cm^2**	side = 68 ÷ 4 = 17; area = 17 × 17 = 289
13	**176 cm^2**	18 × 10 − 2 × 2 = 180 − 4 = 176
14	**152 cm**	8 × 19 = 152
15	**27 cm**	l + b = 70 ÷ 2 = 35; l = 35 − 8 = 27
16	**84**	12 × 7
17	**Rs 4,450**	perimeter = 2 × (56 + 33) = 178 m; 178 × 25 = 4450
18	**4.8 km**	one round 4 × 150 = 600 m; 8 rounds = 4800 m = 4.8 km
19	**Rs 325**	5 × 3 − 2 × 1 = 13 m^2; 13 × 25 = 325
20	**300 tiles**	300 ÷ 20 = 15; 400 ÷ 20 = 20; 15 × 20 = 300

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