Grandmother’s Quilt

Standard difficulty · 20 questions · 40 marks · Time: 54 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. A rectangle is 12 cm long and 13 cm wide. What is its area?
(a) 168 square cm **(b)** 25 square cm **(c)** 156 square cm **(d)** 50 square cm

2. A rectangle is 12 cm long and 12 cm wide. What is its perimeter?
(a) 48 cm **(b)** 36 cm **(c)** 144 cm **(d)** 24 cm

3. What is the area of a square of side 26 cm?
(a) 702 square cm **(b)** 104 square cm **(c)** 676 square cm **(d)** 52 square cm

4. What is the perimeter of a square of side 26 m?
(a) 104 m **(b)** 676 m **(c)** 52 m **(d)** 30 m

5. The area of a rectangle is:
(a) length × breadth **(b)** length + breadth
(c) 2 × length **(d)** 4 × length

6. A rectangle has an area of 396 square cm. Its length is 22 cm. What is its breadth?
(a) 20 cm **(b)** 18 cm **(c)** 22 cm **(d)** 374 cm

7. A square has a perimeter of 40 m. How long is each side?
(a) 36 m **(b)** 10 m **(c)** 20 m **(d)** 14 m

8. Which rectangle has an area of 30 square cm?
(a) 9 cm × 11 cm **(b)** 10 cm × 3 cm **(c)** 9 cm × 2 cm **(d)** 10 cm × 4 cm

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

9. Find the area and the perimeter of a rectangle 26 m long and 24 m wide.

10. Find the area and the perimeter of a square of side 10 m.

11. A rectangle has a perimeter of 122 m and a length of 42 m. What is its breadth?

12. The area of a square is 16 square m. How long is each side?

13. Rectangle P is 64 cm × 1 cm and rectangle Q is 32 cm × 2 cm. Do they have the same area? The same perimeter?

14. Write two different rectangles (whole-number sides in cm) that each have a perimeter of 40 cm.

15. A quilt has 11 rows of 9 square patches, each of side 10 cm. How long and how wide is the quilt? How many patches are there?

16. A tablecloth is 5 m long and 4 m wide. Lace for its border costs ₹24 a metre. What does the lace cost?

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

17. Asha's room is 11 m long and 3 m wide. (a) What is its area? (b) Tiles of 1 square m cost ₹294 each. What will tiling the floor cost? (c) A skirting strip runs all round the room. How long is it?

18. A square garden has sides of 30 m. (a) What is its perimeter? (b) Fence posts stand every 1 m all round. How many posts are there? (c) Fencing costs ₹59 a metre. What is the total cost?

19. Grandmother sews a quilt from square patches of side 10 cm: 10 rows with 5 patches in each. (a) How long and how wide is the quilt? (b) What is its area? (c) Lace for the border costs ₹13 for every 10 cm. What does the lace cost?

20. Two plots both have a perimeter of 38 m. Plot A is 18 m by 1 m and plot B is 10 m by 9 m. (a) Check that both perimeters are 38 m. (b) Find both areas. (c) Which plot has more room for vegetables?

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Answer key

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Q	Answer	Working
1	**(c) 156 square cm**	12 × 13
2	**(a) 48 cm**	2 × 12 + 2 × 12
3	**(c) 676 square cm**	26 × 26
4	**(a) 104 m**	4 × 26
5	**(a) length × breadth**	—
6	**(b) 18 cm**	396 ÷ 22
7	**(b) 10 m**	40 ÷ 4
8	**(b) 10 cm × 3 cm**	10 × 3 = 30
9	**Area 624 square m; perimeter 100 m**	26 × 24; 2 × 26 + 2 × 24
10	**Area 100 square m; perimeter 40 m**	10 × 10; 4 × 10
11	**19 m**	122 ÷ 2 = 61; 61 − 42
12	**4 m**	4 × 4 = 16
13	**Same area (64 square cm each); perimeters 130 cm and 68 cm, so not the same**	—
14	**Any two with length + breadth = 20, e.g. 19 cm × 1 cm and 18 cm × 2 cm**	length + breadth = 40 ÷ 2 = 20
15	**90 cm by 110 cm; 99 patches**	9 × 10; 11 × 10; 11 × 9
16	**₹432**	perimeter 18 m × 24
17	**(a) 33 square m; (b) ₹9,702; (c) 28 m**	11 × 3; 2 × 11 + 2 × 3
18	**(a) 120 m; (b) 120; (c) ₹7,080**	4 × 30; 120 ÷ 1 (going all round, the last post is the first)
19	**(a) 50 cm by 100 cm; (b) 5,000 square cm; (c) ₹390**	perimeter 300 cm
20	**(a) 2 × (18 + 1) = 2 × (10 + 9) = 38; (b) A 18 square m, B 90 square m; (c) B**	a rectangle closer to a square has more area for the same perimeter

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