

Measurement, Perimeter and Area

Mathematics · Class 4 · Topic-wise Practice Worksheet

TIME 40 minutes	QUESTIONS 15	TOTAL MARKS 21	MAX. SCORE ___ / 21
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Name: _____ Class/Sec: _____ Date: _____

INSTRUCTIONS

- There are **15 questions** in this worksheet. All questions are compulsory.
- Each question has four options (A), (B), (C) and (D). Exactly **one** option is correct.
- Questions 1–12 carry **1 mark** each. Questions 13–15 (Achievers Section) carry **3 marks** each.
- There is no negative marking. Use of a calculator is **not** allowed.
- Figures are not drawn to scale.

Section A — Mathematical Reasoning

Q1–Q8 · 1 mark each

- The perimeter of a rectangle of length 14 cm and breadth 9 cm is _____.
 (A) 46 cm (B) 36 cm
 (C) 23 cm (D) 126 cm
- The area of a rectangle of length 12 m and breadth 7 m is _____.
 (A) 19 m² (B) 38 m²
 (C) 84 m (D) 84 m²
- The perimeter of a square of side 15 cm is _____.
 (A) 60 cm (B) 45 cm
 (C) 30 cm (D) 225 cm
- The area of a square of side 9 cm is _____.
 (A) 18 cm² (B) 81 cm²
 (C) 72 cm² (D) 36 cm²
- 2 kg 350 g written entirely in grams is _____.
 (A) 235 g (B) 2035 g
 (C) 23,500 g (D) 2350 g
- How many millilitres are there in 3.5 litres?
 (A) 3500 ml (B) 350 ml
 (C) 35 ml (D) 35,000 ml
- Which unit is best for measuring the distance between two cities?
 (A) Millimetre (B) Kilometre
 (C) Metre (D) Centimetre
- How many minutes are there from 9:40 a.m. to 10:15 a.m.?
 (A) 25 (B) 35
 (C) 45 (D) 75

9. Find the perimeter of the shape shown below.

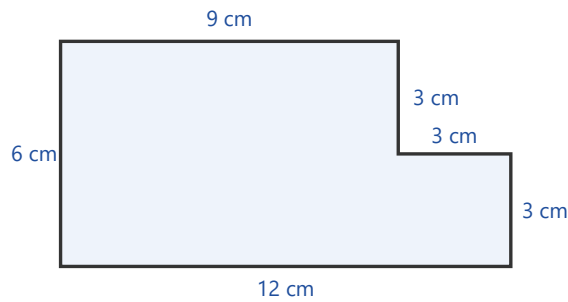


Fig. 9.1 — An L-shaped figure

- (A) 30 cm (B) 33 cm
(C) 36 cm (D) 42 cm
10. A rectangular garden is 25 m long and 18 m wide. What is the cost of fencing it at ₹40 per metre?
(A) ₹1,720 (B) ₹18,000
(C) ₹4,500 (D) ₹3,440
11. A floor is 8 m long and 5 m wide. How many square tiles of side 1 m are needed to cover it?
(A) 13 (B) 26
(C) 40 (D) 80
12. A milkman has 25 litres of milk. He sells it in 250 ml packets. How many full packets can he fill?
(A) 10 (B) 25
(C) 100 (D) 250

Achievers Section

Q13–Q15 · 3 marks each

13. The perimeter of a rectangle is 54 cm and its length is 15 cm. What is its breadth?
(A) 12 cm (B) 9 cm
(C) 24 cm (D) 39 cm
14. A square and a rectangle have the **same area**. The rectangle is 16 cm long and 4 cm wide. What is the side of the square?
(A) 4 cm (B) 8 cm
(C) 10 cm (D) 20 cm
15. A train leaves at 6:45 a.m. and reaches its destination at 11:20 a.m. How long is the journey?
(A) 4 hours 25 minutes (B) 5 hours 25 minutes
(C) 4 hours 35 minutes (D) 5 hours 35 minutes

Answer Key

1	A	2	D	3	A	4	B	5	D
6	A	7	B	8	B	9	C	10	D
11	C	12	C	13	A	14	B	15	C

Solutions

1. **Answer: (A)** 46 cm

Perimeter = $2 \times (\text{length} + \text{breadth})$
 $= 2 \times (14 + 9) = 2 \times 23 = \mathbf{46 \text{ cm}}$.

2. **Answer: (D)** 84 m²

Area = length $\times$ breadth = $12 \times 7 = \mathbf{84 \text{ m}^2}$. Note that area is always measured in *square* units.

3. **Answer: (A)** 60 cm

A square has 4 equal sides.
Perimeter = $4 \times 15 = \mathbf{60 \text{ cm}}$.

4. **Answer: (B)** 81 cm²

Area of a square = side $\times$ side = $9 \times 9 = \mathbf{81 \text{ cm}^2}$.

5. **Answer: (D)** 2350 g

1 kg = 1000 g, so 2 kg = 2000 g.
 $2000 + 350 = \mathbf{2350 \text{ g}}$.

6. **Answer: (A)** 3500 ml

1 litre = 1000 ml, so 3.5 litres = $3.5 \times 1000 = \mathbf{3500 \text{ ml}}$.

7. **Answer: (B)** Kilometre

Long distances are measured in **kilometres**. Millimetres and centimetres are for very small lengths.

8. **Answer: (B)** 35

From 9:40 to 10:00 is 20 minutes.
From 10:00 to 10:15 is 15 minutes.
Total = $20 + 15 = \mathbf{35 \text{ minutes}}$.

9. **Answer: (C)** 36 cm

Go all the way round, adding every side:
 $9 + 3 + 3 + 3 + 12 + 6 = \mathbf{36 \text{ cm}}$.

10. **Answer: (D)** ₹3,440

Perimeter = $2 \times (25 + 18) = 2 \times 43 = 86 \text{ m}$.
Cost = $86 \times 40 = \mathbf{₹3,440}$.

11. **Answer: (C)** 40

Area of the floor = $8 \times 5 = 40 \text{ m}^2$.
Each tile covers $1 \text{ m} \times 1 \text{ m} = 1 \text{ m}^2$, so **40** tiles are needed.

12. **Answer: (C)** 100

25 litres = $25 \times 1000 = 25,000 \text{ ml}$.
 $25,000 \div 250 = \mathbf{100 \text{ packets}}$.

13. **Answer: (A)** 12 cm

Perimeter = $2 \times (\text{length} + \text{breadth})$, so length + breadth = $54 \div 2 = 27 \text{ cm}$.
Breadth = $27 - 15 = \mathbf{12 \text{ cm}}$.
Check: $2 \times (15 + 12) = 54 \text{ cm}$. ✓

14. **Answer: (B)** 8 cm

Area of the rectangle = $16 \times 4 = 64 \text{ cm}^2$.
The square has the same area, so side $\times$ side = 64.
Since $8 \times 8 = 64$, the side is **8 cm**.

15. Answer: (C) 4 hours 35 minutes

From 6:45 a.m. to 11:45 a.m. would be 5 hours, but the train arrives 25 minutes earlier than that.

5 hours – 25 minutes = **4 hours 35 minutes**.

Check: 6:45 + 4 h = 10:45, and 10:45 + 35 min = 11:20. ✓