Class 4 Perimeter & Area Worksheet

Understanding Perimeter and Area

Perimeter is the total distance around a shape. **Area** is the space inside a shape.

Key Formulas for Class 4:
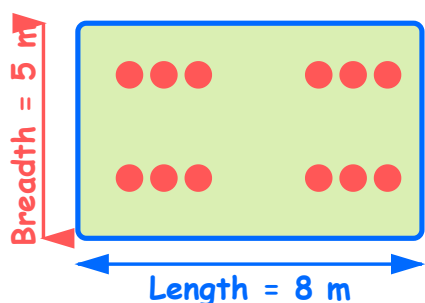
Rectangle Perimeter = 2 × (Length + Breadth)

Rectangle Area = Length × Breadth

Square Perimeter = 4 × Side

Square Area = Side × Side

Sample Problem with Visual

Problem: A rectangular garden is 8 meters long and 5 meters wide. Find its perimeter and area.

Breadth = 5 m, Length = 8 m

Solution:

Perimeter:

= 2 × (8 + 5)

= 2 × 13

= 26 meters

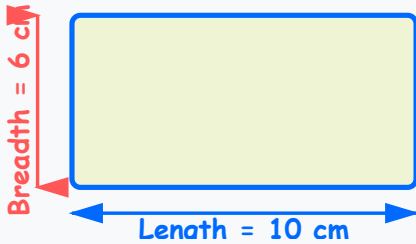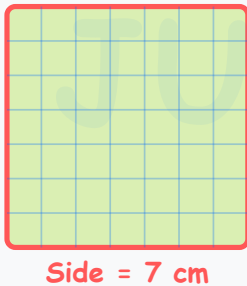**Area:**

= 8 × 5

= 40 square meters

Part A: Warm-up (Easy) - 8 Questions

Q1. Find the perimeter of a rectangle with length 10 cm and breadth 6 cm.

Breadth = 6 cm

Length = 10 cm

Q2. Find the area of a square with side 7 cm.

Area = Side × Side

Side = 7 cm

Q3. True or False: The perimeter of a square with side 5 cm is 20 cm.

True   False

Q4. Fill in the blank: Area of rectangle = Length × _____

Q5. A rectangle has length 12 cm and breadth 4 cm. Find its perimeter.
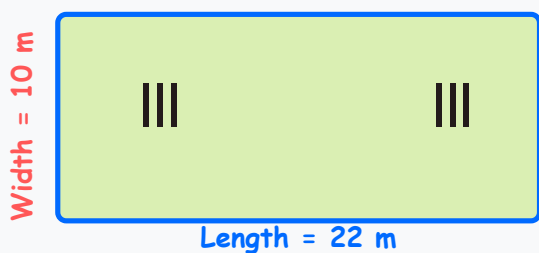
Q6. A square notebook has a side of 20 cm. What is its perimeter?

Q7. Find the area of a rectangle with length 9 m and breadth 3 m.

Q8. If a square has perimeter 24 cm, what is the length of one side?

Part B: Practice (Medium) - 10 Questions

Q9. A rectangular cricket pitch is 22 meters long and 10 meters wide. Find both its perimeter and area.

Width = 10 m

III   III

Length = 22 m

Q10. Find the perimeter: Length = 15 cm, Breadth = 8 cm

Q11. A square tile has an area of 64 sq cm. What is the length of its side?

Q12. True or False: A rectangle with length 12 cm and breadth 3 cm has the same perimeter as a square with side 7 cm.

True   False

Q13. A rectangular classroom is 8 meters long and 6 meters wide. How many square meters of carpet is needed to cover the floor?

Q14. The perimeter of a rectangle is 40 cm. If its length is 12 cm, find its breadth.

Q15. Match the following:

Column A	Column B
a) Square side 6 cm - Perimeter	i) 81 sq cm
b) Rectangle 10×4 cm - Area	ii) 24 cm
c) Square side 9 cm - Area	iii) 40 sq cm
d) Rectangle 7×5 cm - Perimeter	iv) 24 cm

Q16. A rectangular park is 25 meters long and 18 meters wide. Find the cost of fencing it at Rs 15 per meter.

Q17. A square has side 11 cm. Find both perimeter and area.

Q18. A rectangular table top measures 120 cm by 80 cm. What is its area in square meters?
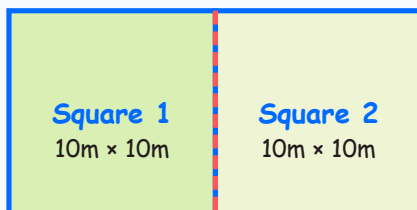
Hint: Convert to meters first

Part C: Challenge (Hard) - 6 Questions

Q19. A rectangular field is 35 meters long and 20 meters wide. A path 2 meters wide runs around the outside. Find the perimeter of the outer boundary.

Q20. Two squares have sides 8 cm and 12 cm. Find the difference between their areas.
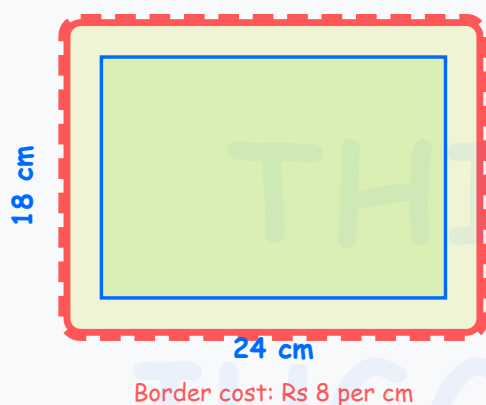
Q21. A rectangular garden is divided into two equal square sections. If each square has a side of 10 meters, find the perimeter and area of the entire rectangular garden.

Total Rectangle = ?

Square 1
10m × 10m

Square 2
10m × 10m

Q22. The area of a rectangle is 96 sq cm. If its breadth is 8 cm, find its length and perimeter.

Q23. Ravi wants to put a decorative border around a rectangular photo frame measuring 24 cm by 18 cm. If the border material costs Rs 8 per cm, what is the total cost?

18 cm

24 cm

Border cost: Rs 8 per cm

Q24. Challenge: A square and a rectangle have the same perimeter of 48 cm. If the rectangles length is 14 cm, which shape has a larger area? Find both areas.

Answer Key

Q1: 32 cm

Q2: 49 sq cm

Q3: True

Q4: Breadth

Q5: 32 cm

Q6: 80 cm

Q7: 27 sq m

Q8: 6 cm

Q9: P: 64 m, A: 220 sq m

Q10: 46 cm

Q11: 8 cm

Q12: False

Q13: 48 sq m

Q14: 8 cm

Q15: a-ii, b-iii, c-i, d-iv

Q16: Rs 1290

Q17: P: 44 cm, A: 121 sq cm

Q18: 0.96 sq m

Q19: 118 m

Q20: 80 sq cm

Q21: P: 60 m, A: 200 sq m

Q22: L: 12 cm, P: 40 cm

Q23: Rs 672

Q24: Sq: 144 sq cm, Rect: 140 sq cm

Scoring Guide

Score Range	Performance
22-24 correct	Outstanding!
18-21 correct	Excellent!
14-17 correct	Very Good!
10-13 correct	Good effort!
Below 10	Keep practicing!

Total Questions: 24 | Your Score: _____ / 24

NEP-aligned, hands-on experiential kits

Applied Maths Kit (Age 7+)

Applied Maths Kit (Age 10+)

Interdisciplinary STEM Kit (Age 7+)

Interdisciplinary STEM Kit (Age 10+)

Entrepreneurship Kit

Finance Literacy Kit

Chess Starter Kit

Explore Sanskrit Kit

Founded by IIT & NIT Alumni, Thinking Juggernaut is a NEP-2020 aligned experiential learning platform that builds 21st-century skills, connects subjects, and links classroom concepts to real-life challenges.

View All Kits Online →