

GRADE 4

AREA & PERIMETER

Printable Worksheet Pack

- Perimeter of squares and rectangles
- Area of squares and rectangles
- Square units
- Missing side lengths
- Comparing area and perimeter
- Real-life area & perimeter problems
- Grid-based area
- Missing measurements & True/False
- Mixed challenge
- Answer key included

Name: _____

Date: _____ Teacher: _____

Worksheet 1: Perimeter

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A. Find the perimeter.



1. Rectangle: P = _____



2. Rectangle: P = _____



3. Square: P = _____

B. Calculate.

4. A rectangle is 15 cm long and 7 cm wide. Perimeter = _____

5. A square has sides of 9 cm. Perimeter = _____

6. A garden is 20 m long and 12 m wide. Perimeter = _____

C. Challenge

7. A rectangle has a perimeter of 30 cm. Its length is 10 cm. What is its width? _____

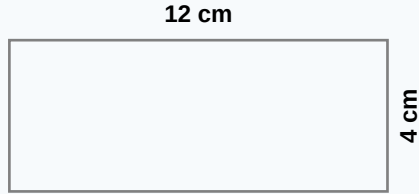
Worksheet 2: Area

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A. Find the area.



1. Area = _____ cm^2



2. Area = _____ cm^2



3. Square area = _____ cm^2

B. Calculate.

4. A rectangle is 15 cm long and 7 cm wide. Area = _____ cm^2

5. A square has sides of 9 cm. Area = _____ cm^2

6. A classroom floor is 8 m by 6 m. Area = _____ m^2

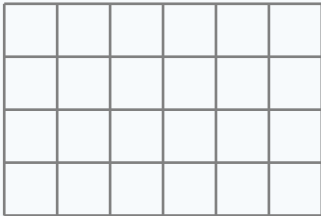
C. Challenge

7. A rectangle has an area of 48 cm^2 and a length of 8 cm. What is its width? _____

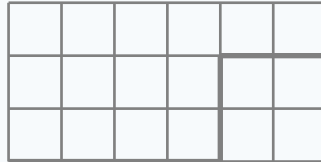
Worksheet 3: Area on a Grid

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A. Count the squares.



1. Area = _____ square units



2. Shaded outline area = _____ square units

B. Area and perimeter

3. A 5-unit by 4-unit rectangle has area _____ square units and perimeter _____ units.

4. A 7-unit by 2-unit rectangle has area _____ square units and perimeter _____ units.

5. Which has greater area: 6×3 or 5×4 ? _____

C. Challenge

6. Draw a rectangle with an area of 24 square units. Give two possible side lengths.

Worksheet 4: Missing Side Lengths

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A. Find the missing side.

1. Rectangle perimeter = 30 cm, length = 10 cm. Width = _____ cm

2. Rectangle perimeter = 44 m, length = 14 m. Width = _____ m

3. Rectangle area = 36 cm^2 , length = 9 cm. Width = _____ cm

4. Rectangle area = 60 m^2 , width = 6 m. Length = _____ m

5. Square perimeter = 36 cm. Side = _____ cm

6. Square area = 49 cm^2 . Side = _____ cm

B. Reasoning

7. A rectangle has area 72 cm^2 . Give two possible pairs of whole-number side lengths.

8. Can a rectangle with perimeter 20 cm have length 8 cm and width 2 cm? _____

Worksheet 5: Compare Area & Perimeter

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A. Compare the shapes.

1. Rectangle A: $8\text{ cm} \times 3\text{ cm}$. Area = ____ cm^2 ; Perimeter = ____ cm

2. Rectangle B: $6\text{ cm} \times 5\text{ cm}$. Area = ____ cm^2 ; Perimeter = ____ cm

3. Which has greater area, A or B? _____

4. Which has greater perimeter, A or B? _____

5. Do shapes with the same perimeter always have the same area? _____

6. Do shapes with the same area always have the same perimeter? _____

B. Think carefully

7. A square has side 6 cm. A rectangle is $8\text{ cm} \times 4\text{ cm}$. Which has the larger area? Which has the larger perimeter?

Worksheet 6: Area & Perimeter Word Problems

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A. Solve each problem.

1. A rectangular garden is 12 m long and 8 m wide. Find its area and perimeter.
2. A square playground has side length 15 m. Find its area and perimeter.
3. A farmer wants to fence a rectangular field 25 m by 14 m. How much fencing is needed?
4. A room is 6 m by 4 m. How many 1 m^2 tiles are needed to cover the floor?
5. A poster is 30 cm long and 20 cm wide. Find its area and perimeter.
6. A rectangular table has area 36 m^2 and width 4 m. Find its length and perimeter.

B. Challenge

7. A rectangular park is $20 \text{ m} \times 10 \text{ m}$. A $4 \text{ m} \times 3 \text{ m}$ flower bed is inside it. How much open area remains?

Worksheet 7: Missing Measurements & True/False

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A. Find the missing value.

1. Area = 45 cm^2 , length = 9 cm. Width = _____
2. Area = 72 m^2 , width = 8 m. Length = _____
3. Perimeter = 50 cm, length = 15 cm. Width = _____
4. Perimeter = 32 m, width = 6 m. Length = _____
5. Square area = 64 cm^2 . Side = _____
6. Square perimeter = 52 m. Side = _____

B. True or False

7. Area is measured in square units.
8. Perimeter measures the space inside a shape.
9. A square with side 5 cm has area 25 cm^2 .
10. A rectangle $10 \text{ cm} \times 2 \text{ cm}$ has perimeter 24 cm.
11. A rectangle $7 \text{ cm} \times 3 \text{ cm}$ has area 20 cm^2 .

C. Correct the false statement

12. Correct #8: _____

Worksheet 8: Mixed Area & Perimeter Challenge

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A. Solve.

1. A rectangle is 18 cm by 7 cm. Find area and perimeter.
2. A square has perimeter 48 cm. Find its side length and area.
3. A rectangle has area 96 cm^2 and width 8 cm. Find its length and perimeter.
4. Which has greater area: a 10×6 rectangle or a 12×5 rectangle? By how much?
5. A $20 \text{ m} \times 15 \text{ m}$ garden has a $5 \text{ m} \times 4 \text{ m}$ shed. What area remains for the garden?
6. A $4 \text{ m} \times 3 \text{ m}$ rectangle is joined to a $3 \text{ m} \times 2 \text{ m}$ rectangle along a 3 m side. What is the total area?

B. Design challenge

7. Design a rectangle with area 36 cm^2 . Give its length, width and perimeter.

Answer Key: Grade 4 Area & Perimeter

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Worksheet 1

1. 26 cm 2. 32 cm 3. 24 cm
4. 44 cm 5. 36 cm 6. 64 m 7. 5 cm

Worksheet 5

1. 24 cm^2 , 22 cm 2. 30 cm^2 , 22 cm
3. B 4. Equal 5. No 6. No
7. Square: 36 cm^2 , 24 cm; rectangle: 32 cm^2 , 24 cm.
Square has larger area; perimeters equal.

Worksheet 2

1. 40 cm^2 2. 48 cm^2 3. 36 cm^2
4. 105 cm^2 5. 81 cm^2 6. 48 m^2 7. 6 cm

Worksheet 6

1. 96 m^2 , 40 m 2. 225 m^2 , 60 m 3. 78 m
4. 24 tiles 5. 600 cm^2 , 100 cm 6. 9 m, 26 m
7. 188 m^2

Worksheet 3

1. 24 square units 2. 16 square units
3. 20 sq units, 18 units 4. 14 sq units, 18 units
5. 5×4 6. Examples: 4×6 or 3×8

Worksheet 7

1. 5 cm 2. 9 m 3. 10 cm 4. 10 m 5. 8 cm 6. 13 m
7. True 8. False 9. True 10. True 11. False
12. Perimeter measures the distance around a shape.

Worksheet 4

1. 5 cm 2. 8 m 3. 4 cm 4. 10 m 5. 9 cm 6. 7 cm
7. Examples: 8×9 and 6×12 8. Yes

Worksheet 8

1. 126 cm^2 , 50 cm 2. 12 cm, 144 cm^2 3. 12 cm, 40 cm
4. Equal, difference 0 5. 280 m^2 6. 18 m^2
7. Examples: 4×9 , 6×6 , 3×12 .