

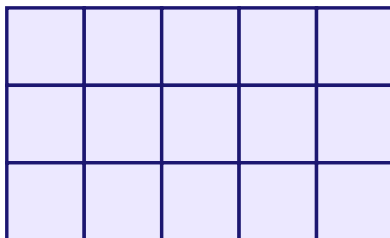
Area and Perimeter: math practice, Grade 3 – download the PDF

22 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Count the squares

★ ★ ★

Each square in the figure has sides of 1 cm.



How many unit squares cover the rectangle? Write its area with the correct unit.

2 Floor tiles in a hallway

★ ★ ★

Ms. Rivera covers a hallway floor with 1-foot square tiles. She lays 3 rows with 9 tiles in each row.

- How many tiles does she use?
- What is the area of the hallway floor?

3 Brownie pan



A pan holds brownies cut into 1-inch squares: 4 rows with 6 brownies in each row.

- Write a multiplication sentence for the number of brownies.
- What is the area of the pan?

4 Areas of rectangles



Find the area of each rectangle.

- 6 cm by 3 cm
- 8 in by 5 in
- 7 m by 2 m

5 Areas of squares



Find the area of each square.

- A square tile with sides of 5 in.
- A square card with sides of 8 cm.

6 Perimeter of a triangle



A triangle-shaped flag has sides of 7 in, 9 in, and 6 in. What is its perimeter?

7 A garden bed



A rectangular garden bed is 9 ft long and 4 ft wide.

- Find its area.
- Find its perimeter.

8

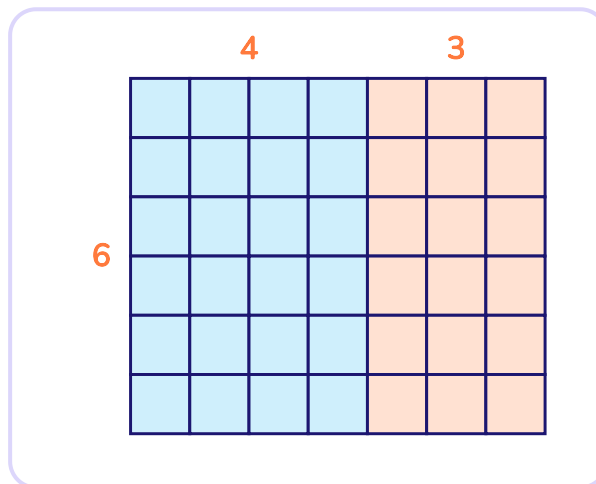
The missing side of a rectangle

A rectangular playground has an area of 56 square meters. Its width is 7 m. What is its length?

9

Cut it into two parts

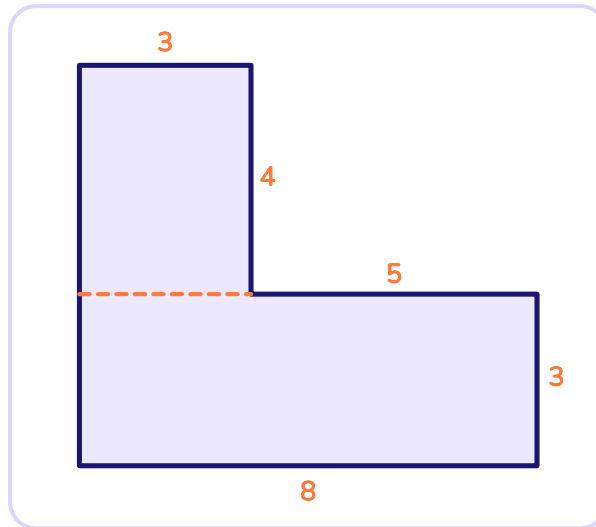
A rectangle is 7 units wide and 6 units tall. It is cut into two parts, one 4 units wide and one 3 units wide.



- Find the area of each part.
- Add to find the area of the whole rectangle.
- Check by multiplying 7×6 .

10 L-shaped patio

The figure shows a patio. All lengths are in feet. The dashed line cuts it into two rectangles.



Find the area of the patio.

11 Fence around a yard

Mr. Chen wants to put a fence around a rectangular yard that is 12 ft long and 5 ft wide. How many feet of fence does he need?

12 Perimeter of a pentagon

A pentagon has sides of 4 cm, 6 cm, 5 cm, 7 cm, and 3 cm. Find its perimeter.

13 The third side

A triangle has a perimeter of 24 cm. Two of its sides are 9 cm and 7 cm. How long is the third side?

14 Which rug is larger?



Rug A is 6 ft by 4 ft. Rug B is a square with sides of 5 ft.

- Find the area of each rug. Which one covers more floor?
- Find the perimeter of each rug.
- What do you notice?

15 Same area, different shapes



A craft store sells rectangular mats with an area of 24 square inches. The side lengths are whole numbers of inches.

- List every possible length and width pair (do not count a rotated copy twice).
- Find the perimeter of each mat.
- Which mat has the smallest perimeter?

16 Same perimeter, different shapes



Rectangles with whole-number sides all have a perimeter of 20 cm.

- Find the width of each one if the length is 9, 8, 7, 6, or 5 cm.
- Find the area of each rectangle.
- Which one has the greatest area?

17 Width first, then area



A rectangular pool has a perimeter of 26 m and a length of 8 m. Find its width and then its area.

18 From perimeter to area of a square

★★★

A square picture frame has a perimeter of 36 cm. What is the area of the picture inside, if the picture has the same size as the frame?

19 Carpet in a room

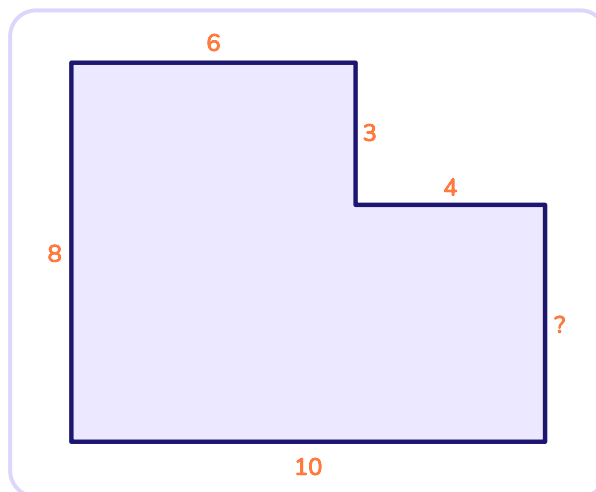
★★★

A bedroom floor is 9 ft by 7 ft. A rectangular carpet that is 5 ft by 4 ft lies on the floor. How many square feet of the floor are not covered by the carpet?

20 A notched shape

★★★

The figure shows a rectangle with a notch cut from its top right corner. All lengths are in centimeters.



- Find the missing side marked with a question mark.
- Find the perimeter of the shape.
- Find its area.

21 A banner and the distributive property

★★★

A school banner is 12 ft long and 7 ft tall. Break 12 into $10 + 2$ and use the distributive property to find the area.

22

Is Mia right?

Mia says: "If a rectangle has a longer perimeter, it always has a larger area." Test her idea with a 1 by 12 rectangle and a 4 by 4 square, both in inches.

- Find the perimeter and area of each shape.
- Is Mia right? Explain.

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