

Y5 Area Rectangles

KS2 Y5 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Find the area of a rectangle 8 cm long and 5 cm wide.

Step 1 · Area of a rectangle = length $\times$ width

$$8 \times 5$$

Answer: 40 cm²

Check: 5 rows of 8 squares = 40 squares ✓

2. Now try one with the steps

A square classroom rug has sides of 3 m. What is its area?

Step 1 · Length $\times$ width

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. Find the area of a rectangle 6 cm by 4 cm.

2. Find the area of a square with sides of 9 cm.

3. A playground is 20 m long and 15 m wide. What is its area?

4. A rectangle has an area of 36 cm² and a width of 4 cm. What is its length?

5. Which has the bigger area: a 7 cm by 3 cm rectangle or a 5 cm by 5 cm square?

6. Would you measure the area of a football pitch in cm^2 or m^2 ?
7. A rectangle is 12 cm by 8 cm. Find its area and its perimeter.
8. An irregular leaf covers 14 whole squares and 8 squares that are more than half covered on a centimetre grid. Estimate its area.
9. A wall is 5 m wide and 3 m tall. A window in it is 2 m by 1 m. What area of wall needs painting?
10. An L-shape is made of a 10 cm by 3 cm rectangle and a 4 cm by 5 cm rectangle. What is its total area?
11. Find two different rectangles with whole-number sides that both have an area of 24 cm^2 .
12. A square has an area of 64 m^2 . What is its perimeter?
13. Carpet costs £12 per square metre. How much does it cost to carpet a room 5 m by 4 m?
14. Rectangle A is 9 cm by 4 cm. Rectangle B has the same area and a length of 12 cm. What is the width of B?

4. Before you hand it in

Finding the area of a 6 cm by 4 cm rectangle as 20 cm.

Area = length $\times$ width = $6 \times 4 = 24 \text{ cm}^2$. Perimeter is the distance round; area is the space inside.

Writing the area as 24 cm.

Area is measured in squares: cm^2 (square centimetres) or m^2 (square metres).

When estimating an irregular area, counting every square that the shape touches.

Count whole squares, count squares at least half covered as 1, and ignore squares less than half covered.