

Grade 3 - Area - Test

Common Core 3.MD.C.5, 3.MD.C.6, 3.MD.C.7 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This **area test** for 3rd Grade covers area (Common Core 3.MD.C.5, 3.MD.C.6, 3.MD.C.7), with a free PDF to print.

This test has 9 questions worth 20 points in total. It covers counting unit squares, area of rectangles, missing sides, splitting rectangles, and L-shaped figures (3.MD.C.5 to 3.MD.C.7). Show all work and write units. You have 45 minutes.

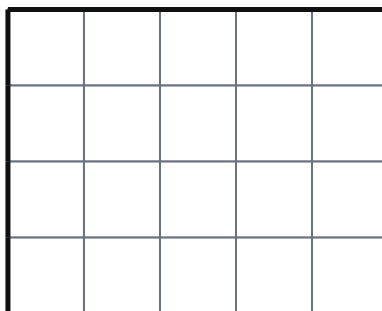
Time and points

About this test

- Grade: Grade 3
- Chapter: Area
- Standards: 3.MD.C.5, 3.MD.C.6, 3.MD.C.7
- Time: 45 minutes
- Total: 20 points

Area test: questions

Question 1 - Count the squares [2 pts]

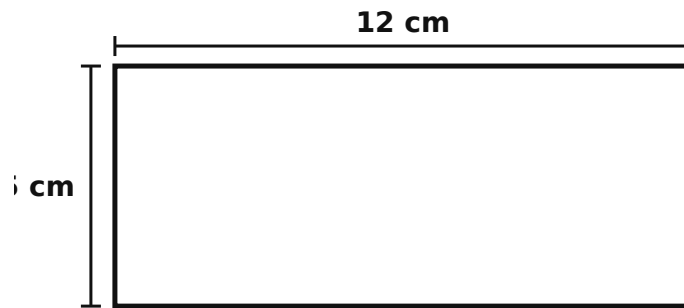


Unit squares.

- Count the unit squares in the rectangle. (1 point)
- Write a multiplication sentence for the area. (1 point)

Question 2 - Area of rectangles [2 pts]

- a. Find the area of the rectangle. (1 point)



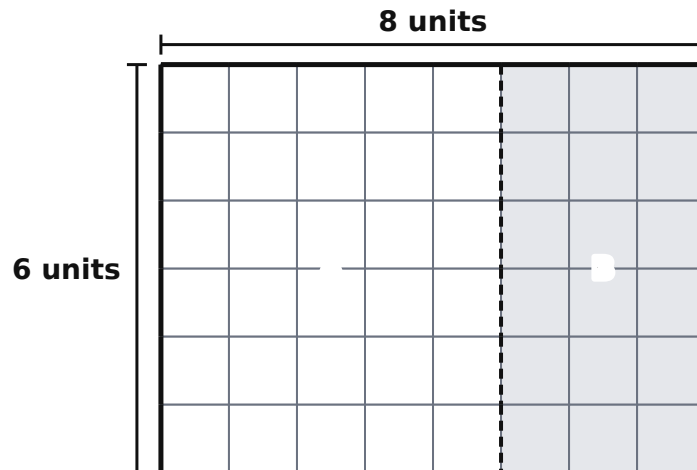
Not drawn to a grid.

- b. Find the area of a square with sides of 9 inches. (1 point)

Question 3 - Find the missing side [2 pts]

- a. A rectangle has an area of 56 square feet and a length of 8 feet. Find its width. (1 point)
b. A rectangle has an area of 72 square meters and a width of 9 meters. Find its length. (1 point)

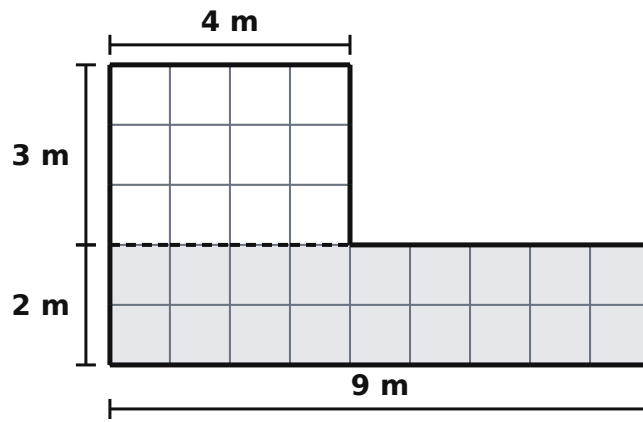
Question 4 - Split the rectangle [2 pts]



Part A is 5 units wide. Part B is 3 units wide.

- a. Find the area of part A and the area of part B. (1 point)
b. Find the area of the whole rectangle. (1 point)

Question 5 - L-shaped garden [3 pts]



An L-shaped garden.

Find the area of the garden. Show the work.

Question 6 - Patio tiles [3 pts]

Priya's patio is a rectangle 14 feet long and 6 feet wide. She covers it with square tiles that are 1 foot on each side. Each tile costs \$3.

- How many tiles does she need? (1 point)
- What is the total cost of the tiles? (2 points)

Question 7 - Same area [2 pts]

Mei says a rectangle can have an area of 24 square units. List every pair of whole-number side lengths that gives an area of 24.

Question 8 - Does order matter? [2 pts]

Noah says a 7-by-9 rectangle has a different area than a 9-by-7 rectangle. Is he correct? Explain.

Question 9 - Two flower beds [2 pts]

A park has two rectangular flower beds. One is 7 yards by 4 yards. The other is 5 yards by 3 yards. Find the total area of the two beds.

Key facts behind this area test

Key facts

- A unit square has sides 1 unit long and an area of 1 square unit.
- Rectangle area = length $\times$ width (rows times squares in each row).
- Area is always written in square units, such as square feet.
- The distributive property splits a big rectangle into two small ones: $8 \times 6 = (5 \times 6) + (3 \times 6)$.
- Find the area of an L-shape by cutting it into rectangles and adding.

How to use this area test

Time yourself: the test is designed for an average student in 45 minutes. Answer the questions you are sure of first, then come back to the longer ones and check your units.