

Grade 3 • Area • Worksheet

Common Core 3.MD.C.5, 3.MD.C.6, 3.MD.C.7 • mathovore.fr

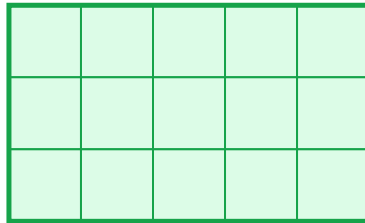
Name: _____ Date: ____/____/____ Score: _____

These 22 problems practice area with unit squares, multiplying side lengths, the distributive property and L-shaped figures (3.MD.C.5, 3.MD.C.6, 3.MD.C.7). They start with counting squares and end with word problems that use more than one step. Work in order and show each multiplication sentence.

Grade 3 Common Core: 3.MD.C.5 • 3.MD.C.6 • 3.MD.C.7

Problem 1: Count the unit squares

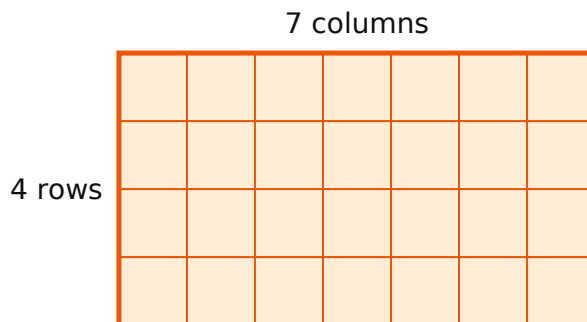
Count the unit squares to find the area of the rectangle. Each square is 1 square centimeter.



A rectangle covered with unit squares.

Problem 2: Rows and columns

Write a multiplication sentence for the rectangle and find its area. Each square is 1 square inch.



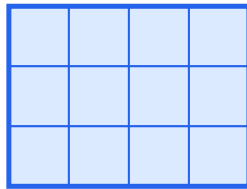
A rectangle with 4 rows and 7 columns.

Problem 3: Tiles in rows

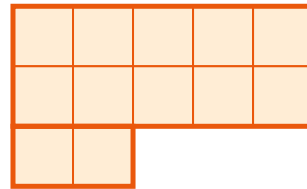
Maya covers a small rectangle on the floor with square tiles. She makes 4 rows with 6 tiles in each row. Each tile is 1 square foot. Find the area.

Problem 4: Compare two shapes

Find the area of Shape A and of Shape B. Each square is 1 square unit. Do the two shapes cover the same amount of flat space?



Shape A



Shape B

Two shapes drawn on unit squares.

Problem 5: Multiply to find area

A rectangle is 8 feet long and 3 feet wide. Find its area.

Problem 6: Garden in square meters

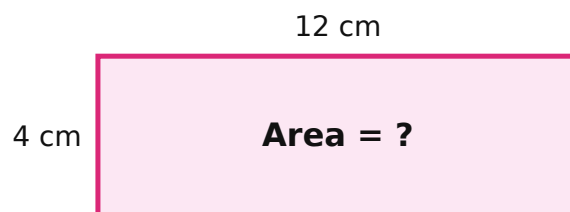
Jamal plants a rectangular garden that is 9 meters long and 5 meters wide. Find the area of the garden.

Problem 7: Area of a square

A square picture frame has sides that are each 7 inches long. Find the area of the square.

Problem 8: Labeled rectangle

Find the area of the rectangle.



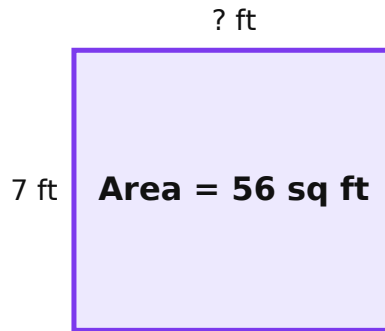
A rectangle with side lengths 12 cm and 4 cm.

Problem 9: Missing width

A rectangle has an area of 36 square inches and a length of 9 inches. Find the width.

Problem 10: Missing length

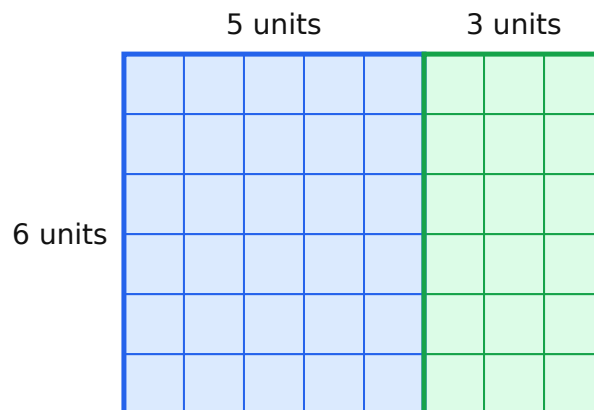
Find the missing length of the rectangle.



A rectangle with width 7 ft and area 56 sq ft.

Problem 11: Break apart a rectangle

The rectangle is split into two parts. Find the area of each part, then find the area of the whole rectangle.



A rectangle 8 units wide and 6 units tall, split into two parts.

Problem 12: Break apart a factor

Find 7×9 by breaking 9 into $5 + 4$ and using the distributive property.

Problem 13: Write the area as a sum

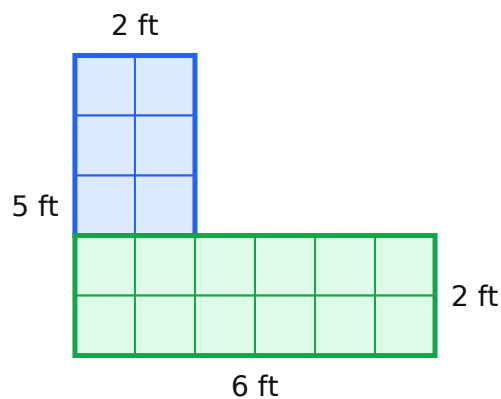
A rectangle is 5 feet wide and 12 feet long. It is split as shown. Write the area as a sum of two products and find the total area.



A rectangle 5 ft by 12 ft split into 10 ft and 2 ft parts.

Problem 14: L-shaped room

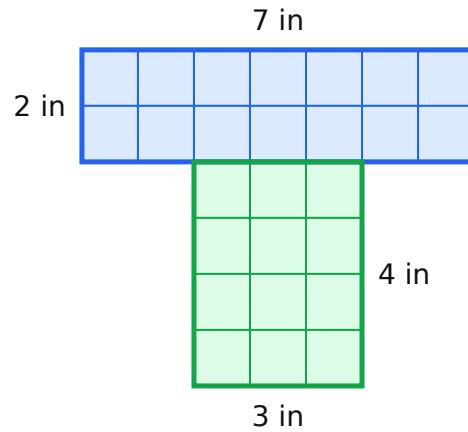
Find the area of the L-shaped room. All corners are square corners.



An L-shaped room with sides 2 ft, 5 ft, 6 ft and 2 ft.

Problem 15: T-shaped sign

Liam makes a T-shaped sign for the school store. Find the area of the sign. All corners are square corners.



A T-shaped sign: top bar 7 in by 2 in, stem 3 in by 4 in.

Problem 16: Floor tiles

Aisha tiles a floor that is 10 feet long and 8 feet wide. Each tile is 1 square foot. How many tiles does she need?

Problem 17: Store and closet

The school store has a main room that is 8 feet by 6 feet and a closet that is 4 feet by 3 feet. What is the total floor area of the two rooms?

Problem 18: Whose rug is bigger?

Priya has a rug that is 6 feet by 4 feet. Diego has a square rug that is 5 feet on each side. Whose rug covers more floor, and how much more?

Problem 19: Backyard in two parts

Ethan's backyard has two rectangular parts next to each other. One part is 9 feet by 6 feet and the other is 4 feet by 6 feet. Find the total area two ways: by adding the two areas, and by finding the area of one big rectangle.

Problem 20: Store sign

Sofia makes a sign from two rectangles of poster board. One is 10 inches by 4 inches and the other is 6 inches by 3 inches. What is the total area of the poster board?

Problem 21: Find the mistake

Noah says that a rectangle 7 units long and 6 units wide has an area of 13 square units. Explain his mistake and find the correct area.

Problem 22: Same area, different rectangles

List all the rectangles with whole-number side lengths that have an area of 12 square units. A 2-by-6 rectangle and a 6-by-2 rectangle count as the same rectangle.