CCSS

MY Homework

Lesson 8

Area of Composite Figures

Homework Helper

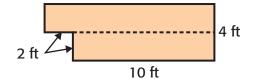


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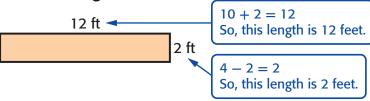
Find the area of the composite figure.



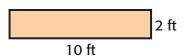
Break the composite figure into smaller parts. Look for rectangles.

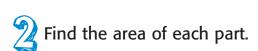


Rectangle 1



Rectangle 2





Rectangle 1

$$A = \ell \times w$$

= 12 × 2
= (10 × 2) + (2 × 2) Decompose 12 as 10 + 2.
= 20 + 4
= 24

Rectangle 2

$$A = \ell \times w$$
$$= 10 \times 2$$
$$= 20$$

The area of Rectangle 1 is 24 square feet.

The area of Rectangle 2 is 20 square feet.



Add the areas.

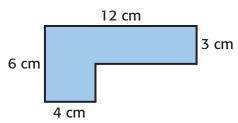
$$24 + 20 = 44$$

The area of the composite figure is 44 square feet.

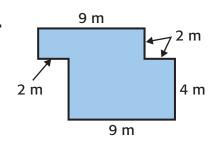
Practice

Find the area of each composite figure. Show your work.

1.



2.



square centimeters. The area is __

square meters.

Vocabulary Check



3. Draw an example of a composite figure. See students' work.

Problem Solving

The composite figure shows the floor plan of a bathroom.

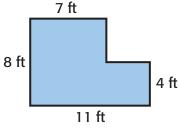
4. What is the area of the bathroom floor?

72 square feet

Mathematical 🛁

Plan Your Solution The floor will be covered in square tiles. If one square tile covers one

square foot, how many tiles are needed?



72 tiles

Test Practice

- **6.** What is the area of the composite figure shown?
 - A 8 square units
- 16 square units
- **B** 12 square units
- 20 square units

