

Lesson 6 Reteach

Area of Composite Figures

To find the area of a composite figure, separate it into figures whose areas you know how to find, and then add the areas.

Example

Find the area of the figure at the right in square feet.

The figure can be separated into a rectangle and a trapezoid. Find the area of each.

Area of Rectangle

$$A = \ell w \quad \text{Area of a rectangle.}$$

$$A = 12 \cdot 8 \quad \text{Replace } \ell \text{ with 12 and } w \text{ with 8.}$$

$$A = 96 \quad \text{Multiply.}$$

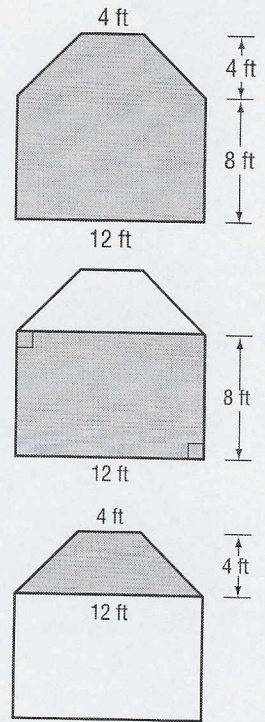
Area of Trapezoid

$$A = \frac{1}{2}h(b_1 + b_2) \quad \text{Area of a trapezoid}$$

$$A = \frac{1}{2}(4)(4 + 12) \quad \text{Replace } h \text{ with 4, } b_1 \text{ with 4, and } b_2 \text{ with 12.}$$

$$A = 32 \quad \text{Multiply.}$$

The area of the figure is $96 + 32$ or 128 square feet.



Exercises

Find the area of each figure. Round to the nearest tenth if necessary.

