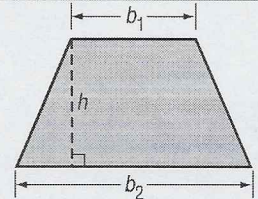


Lesson 3 Reteach

Area of Trapezoids

A trapezoid has two bases, b_1 and b_2 . The height of a trapezoid is the distance between the two bases. The area A of a trapezoid equals half the product of the height h and the sum of the bases b_1 and b_2 .

$$A = \frac{1}{2}h(b_1 + b_2)$$



Example

Find the area of the trapezoid.

$$A = \frac{1}{2}h(b_1 + b_2)$$

Area of a trapezoid

$$A = \frac{1}{2}(4)(3 + 6)$$

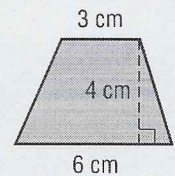
Replace h with 4, b_1 with 3, and b_2 with 6.

$$A = \frac{1}{2}(4)(9)$$

Add 3 and 6.

$$A = 18$$

Simplify.



The area of the trapezoid is 18 square centimeters.

Exercises

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

