

# REVIEW: Area

Name \_\_\_\_\_

## Key Concept and Vocabulary

Rectangle:  $A = bh$

Parallelogram:  $A = bh$

Triangle:  $A = \frac{1}{2}bh$

Trapezoid:  $A = \frac{1}{2}(B + b)h$



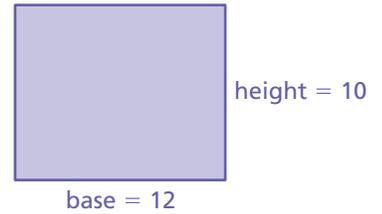
## Visual Model

Area of a Rectangle:

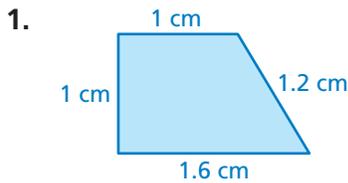
$$A = bh$$

$$= (12)(10)$$

$$= 120 \text{ square units}$$

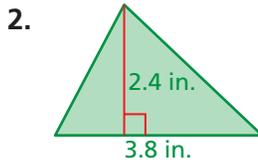


## Skill Examples



$$A = \frac{1}{2}(1.6 + 1)(1)$$

$$= 1.3 \text{ cm}^2$$



$$A = \frac{1}{2}(3.8)(2.4)$$

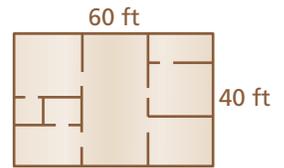
$$= 4.56 \text{ in.}^2$$

## Application Example

3. Find the area of the apartment.

$$A = 60 \cdot 40$$

$$= 2400 \text{ ft}^2$$



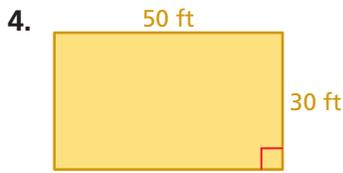
∴ The area is 2400 square feet.

## PRACTICE MAKES PURR-FECT™

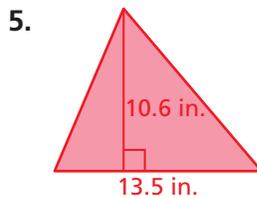


Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

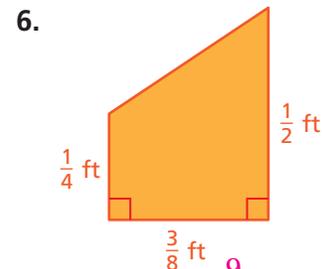
Find the area of the figure.



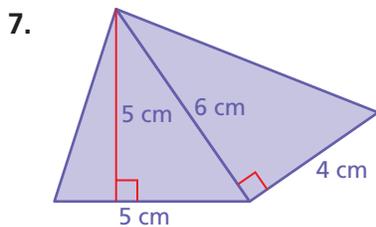
Area = 1500 ft<sup>2</sup>



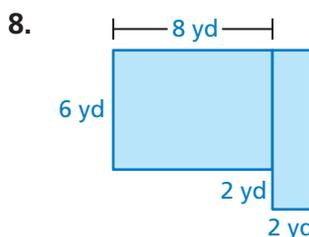
Area = 71.55 in.<sup>2</sup>



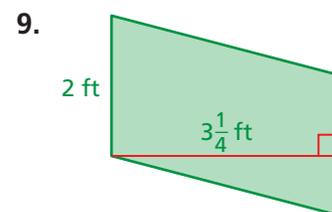
Area = 9/64 ft<sup>2</sup>



Area = 24.5 cm<sup>2</sup>



Area = 64 yd<sup>2</sup>



Area = 6 1/2 ft<sup>2</sup>

10. **CARPET** You are carpeting a rectangular room that is 3.5 yards by 4.5 yards. The carpet costs \$15 per square yard. How much will it cost to carpet the room? \$236.25

11. **COLORADO** Colorado is approximately a rectangle that is 280 miles by 380 miles. Is the area of Colorado greater than or less than 100,000 square miles? Explain.  
**greater than; Area = 280(380) = 106,400 > 100,000**