REVIEW: Area

Name _____

Key Concept and Vocabulary

Rectangle: $A = bh$

Parallelogram: $A = bh$

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

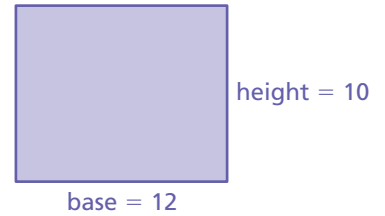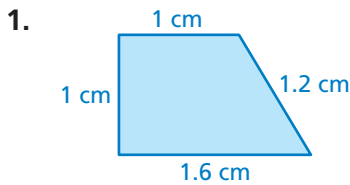Trapezoid: $A = \frac{1}{2}(B + b)h$

Area Formulas

Visual Model

Area of a Rectangle:

$A = bh$

$ = (12)(10)$

$ = 120$ square units

height = 10

base = 12

Skill Examples

1.

1 cm

1 cm

1.2 cm

1.6 cm

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

$ = 1.3$ cm^2

2.

2.4 in.

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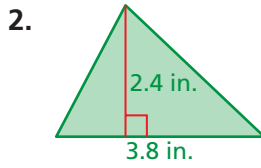
$A = \frac{1}{2}(3.8)(2.4)$

$ = 4.56$ in.^{2}

Application Example

3. Find the area of the apartment.

$A = 60 \cdot 40$
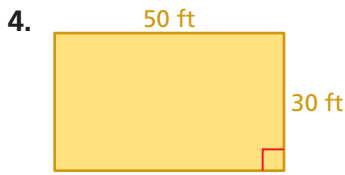
$ = 2400$ ft^2

60 ft

40 ft
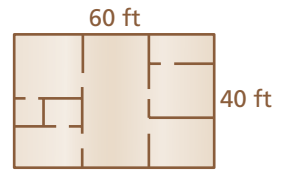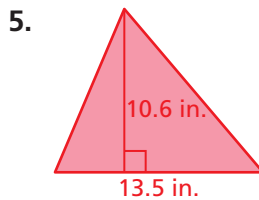
The area is 2400 square feet.

PRACTICE MAKES *PURR*-FECT™

Check your answers at BigIdeasMath.com.

Find the area of the figure.

4.
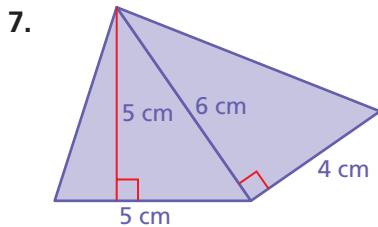
50 ft

30 ft

Area = _____

5.

10.6 in.

13.5 in.

Area = _____

6.

$\frac{1}{2}$ ft

$\frac{1}{4}$ ft

$\frac{3}{8}$ ft

Area = _____

7.

5 cm   6 cm

4 cm

5 cm

Area = _____

8.

8 yd

6 yd

2 yd

2 yd

Area = _____

9.

2 ft

$3\frac{1}{4}$ ft
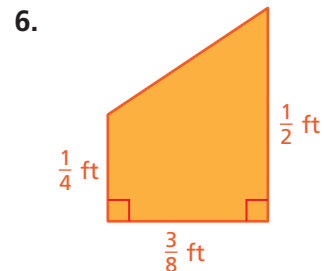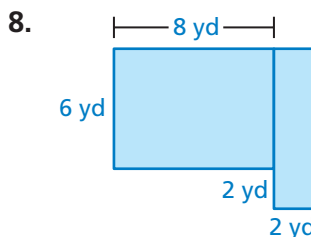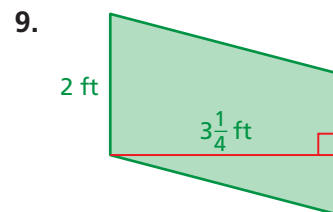
Area = _____

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? _____

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.

_____