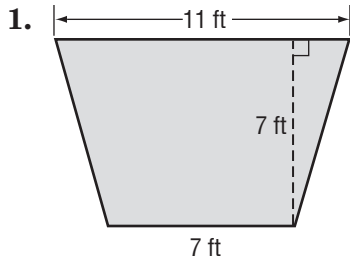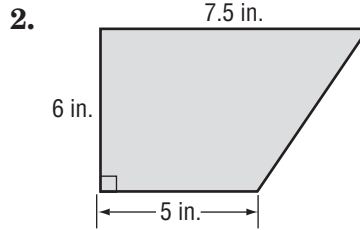# Homework Practice

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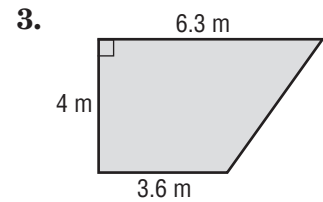
Find the area of each figure. Round to the nearest tenth if necessary.

1.

—11 ft—
7 ft
7 ft

63 ft²

2.

7.5 in.
6 in.
5 in.

37.5 in²

3.

6.3 m
4 m
3.6 m

19.8 m²

4.

14.3 cm
12 cm
18.4 cm

196.2 cm²

5.

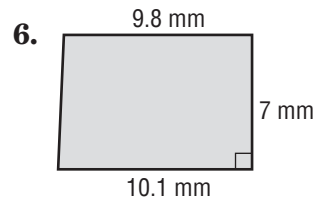
4 yd
$3\frac{1}{2}$ yd   5 yd
9 yd

22.8 yd²

6.

9.8 mm
7 mm
10.1 mm
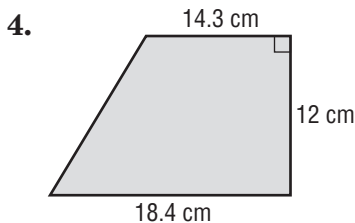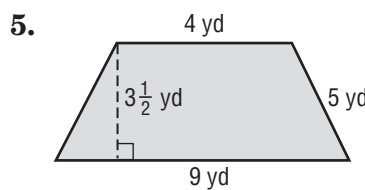
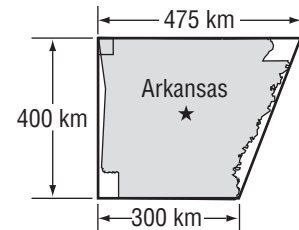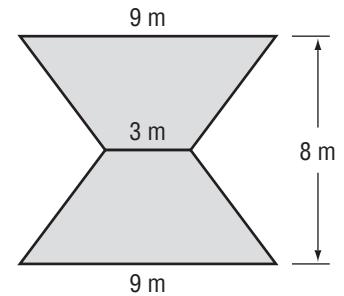**69.7 mm²**

7. GEOGRAPHY The shape of Arkansas is roughly trapezoidal with bases of 475 kilometers and 300 kilometers and a height of 400 kilometers. What is the approximate area of Arkansas?
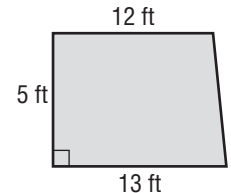**155,000 km²**

—475 km—
400 km   Arkansas ★
—300 km—

8. Find the area of the figure. It is formed by two congruent trapezoids.   **48 m²**

9 m
3 m   8 m
9 m

Draw and label each figure. Then find the area.

9. a trapezoid with a right angle and an area greater than 50 square feet
Sample answer: *A* = 62.5 ft²

12 ft
5 ft
13 ft

10. a trapezoid with no right angles and an area greater than 75 square meters
Sample answer: *A* = 112.5 m²

10 m
9 m
15 m