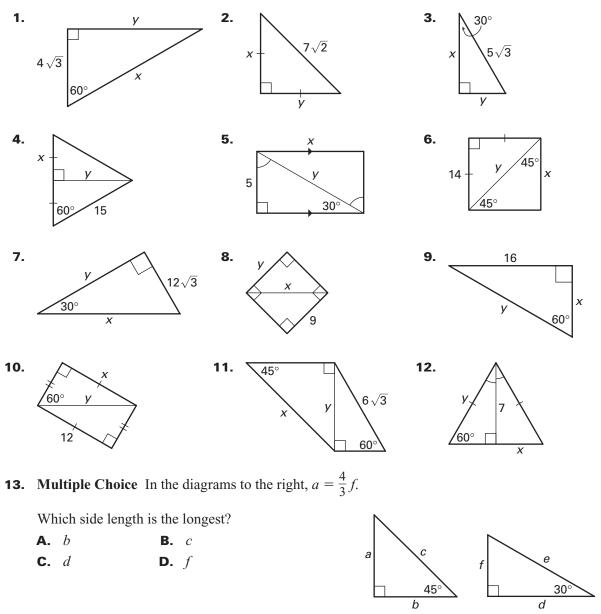
Name .

Practice C 7.4 *Practice C For use with pages 457–464*

Find the value of each variable. Write your answers in simplest radical form.



14. Perimeter The altitude of an equilateral triangle is 12 centimeters. Find the perimeter of the triangle. Round to the nearest tenth.

In Exercises 19–21, use the diagram and following information.

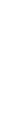
Canyon A symmetrical canyon is 4850 feet deep. A river runs through the canyon at its deepest point. The angle of depression from each side of the canyon to the river is 60°. Round to the nearest tenth.

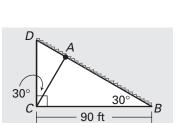
- **19.** Find the distance across the canyon.
- **20.** Find the length of the canyon wall from the edge to the river.
- **21.** Is it more or less than a mile across the canyon? (5280 feet = 1 mile)

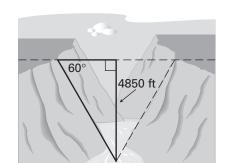
In Exercises 22–24, use the diagram and following information.

Bleachers A fan at a sporting event is sitting at point A in the bleachers. The bleacher seating has an angle of elevation of 30° and a base length of 90 feet. Round to the nearest tenth.

- **22.** Find the height *CD* of the bleachers.
- **23.** Find the height of the fan sitting at point *A* from the ground.
- **24.** Find the distance *AB* that the fan is sitting from the base, point *B*.



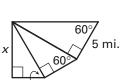




ESSON 7.4



- **15.** Area The diagonal of a square is 12 inches. Find the area. Round to the nearest tenth.
- **16. Diagonal** The perimeter of a rectangle is 32 feet. The length is three times as long as the width. Find the length of the diagonal. Round to the nearest tenth.
- **17.** Altitude The perimeter of an equilateral triangle is 45 meters. Find the length of an altitude. Round to the nearest tenth.
- **18.** Distance Each figure to the right is a $30^{\circ}-60^{\circ}-90^{\circ}$ triangle. Find the value of *x*. Round to the nearest tenth.



Date _