

Name \_\_\_\_\_

Date \_\_\_\_\_

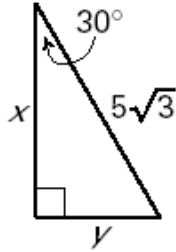
LESSON 7.4

**Practice C**

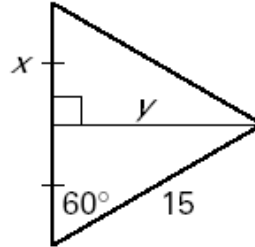
For use with pages 457–464

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

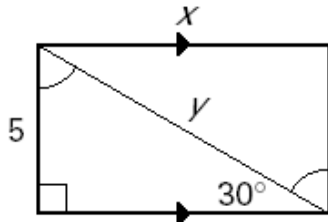
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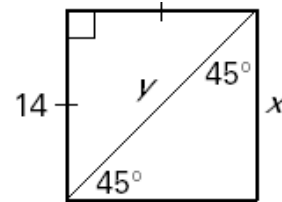
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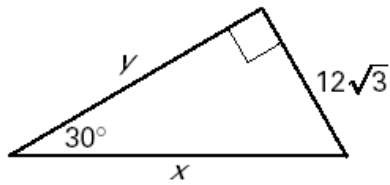
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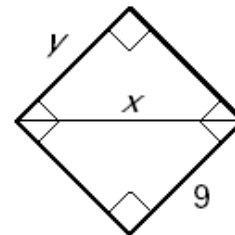
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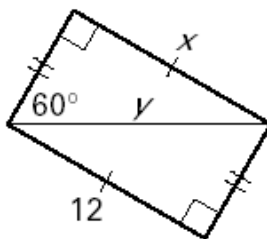
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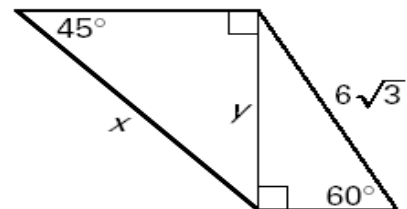
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7.



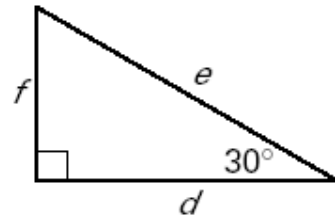
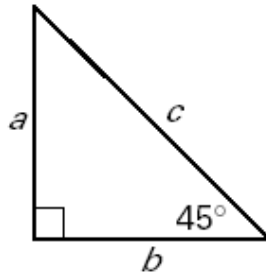
8.



**Multiple Choice** In the diagrams to the right,  $a = \frac{4}{3}f$ .

9. Which side length is the longest?

- A.  $b$
- B.  $c$
- C.  $d$
- D.  $f$



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

11. **Area** The diagonal of a square is 12 inches. Find the area. Round to the nearest tenth.

12. **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.

13. **Altitude** The perimeter of an equilateral triangle is 45 meters. Find the length of an altitude. Round to the nearest tenth.

14. **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.

