NAME _____ DATE _____ PERIOD _____

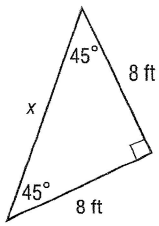
10-6 Practice

Special Right Triangles

Find each missing measure. THEN FIND THE PERIMETER TO NEAREST TENTH.

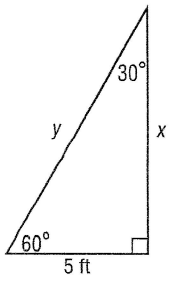
Lesson 10-6

1.



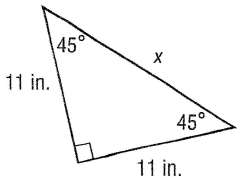
X=
P=

2.

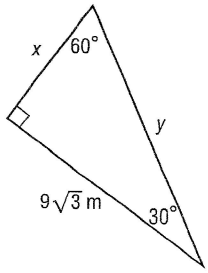


X=
y=
P=

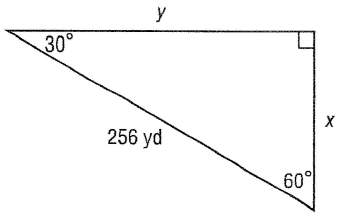
3.



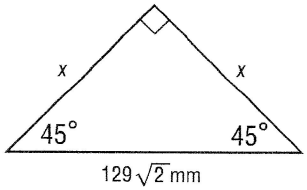
4.



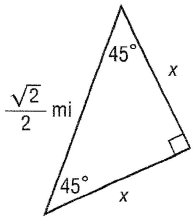
5.



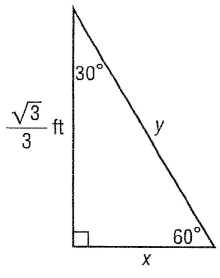
6.



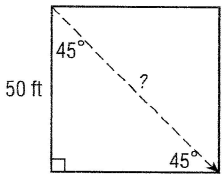
7.



8.



9. SHORTCUTS To get to school, Hari takes a shortcut across a square-shaped lot as shown in the drawing at the right. What is the distance of the shortcut Hari takes?



10. LADDERS A ladder leaning against the side of a building forms a 60° angle with the ground. If the ladder is 20 feet long, how far from the building is the base of the ladder?

NAME _____ DATE _____ PERIOD _____

11-7 Practice

Circles and Circumference

Find the circumference of each circle. Round to the nearest tenth.
SHOW EXACT MEASURE + ROUNDED MEASURE.

1. The diameter is 18 yards.

2. The radius is 4 meters.

3. The diameter is 4.2 meters.

4. The radius is 4.5 feet.

5. The radius is $9\frac{3}{4}$ miles.

6. The diameter is 6 kilometers.

7. The diameter is $2\frac{5}{8}$ inches.

8. The radius is $11\frac{3}{16}$ centimeters.

Match each circle described in the column on the left with its corresponding measurement in the column on the right.

9. radius: 8.5 units

10. diameter: 9 units

11. diameter: 6.5 units

12. radius: 12 units

a. circumference: 53.4 units

b. circumference: 20.4 units

c. circumference: 28.3 units

d. circumference: 75.4 units

13. SPORTS A baseball has a radius of about 1.5 inches. Home plate is 16 inches wide. If a baseball were rolled across home plate, how many complete rotations would it take to cover the distance?

14. SPORTS A soccer ball has a circumference of about 28 inches, while the goal is 24 feet wide. How many soccer balls would be needed to cover the distance between the goalposts?

15. HISTORY Chariot races reached their peak in popularity in ancient Rome around the 1st and 2nd centuries A.D. A chariot wheel had a radius of about one foot. One lap around the track in the Circus Maximus was approximately 2,300 feet. How many chariot-wheel revolutions did it take to complete one lap?

Lesson 11-7