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**Course 3** • Triangles and Transformations

NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**13.** **TELEVISIONS** The diagonal of a television measures 27 inches. If the width of a 27-inch is 22 inches, calculate its height to the nearest inch.

50 mm

14 yd

*c* mm

45 m

*c* m

*a* yd

*b* ft

24 in.

*c* cm

15 cm

8 ft

10 ft

*a* in.

26 in.

18 cm

50 mm

64 m

28 yd

**Write an equation you could use to find the length of the missing side**

**of each right triangle. Then find the missing length. Round to the nearest tenth if necessary.**

**12.** A leg of a right triangle is 30 meters long, and the hypotenuse is 35 meters long. What is the length of the other leg?

**11.** The hypotenuse of a right triangle is 15 inches, and one of its legs is 11 inches. Find the length of the other leg.

**10.** 7 yd, 24 yd, 25 yd

**9.** 18 ft, 23 ft, 29 ft

**Determine whether each triangle with sides of given lengths is a**

**right triangle. Justify your answer.**

**8.** *a*, 16 yd; *b*, 22 yd

**7.** *a*, 65 cm; *c*, 95 cm

**6.**

**5.**

**4.**

**3.**

**2.**

**1.**

**Homework Practice**

***The Pythagorean Theorem***

DATE PERIOD