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**2.** **RAILROAD** A map shows a railroad crossing a highway, as shown below. Which of the numbered angles are supplementary angles?

Railroad

2 3

1

Highway

**Problem-Solving Practice**

***Complementary and Supplementary Angles***

*x***°**

48**°**

**6.** **GAMES** In a game of pick-up-sticks, the last 4 sticks are shown below. Which of the numbered angles are supplementary angles?

3

4

1 2 5

6

8 7

**5.** **KITES** A kite string makes an angle of 48˚ with respect to the ground as shown below. The dashed line is vertical and the ground is horizontal. How are the 48˚ angle and the unknown angle related? What is the value of *x*?

**4.** **SKIING** A ski jump makes an angle of 27˚ with respect to the water as shown below. How are the 27˚ angle and the unknown angle related? What is the value of *x*?

*x***°** 27**°**

**3.** **RAILROAD** Refer to the map shown in Exercise 2. If *m*∠1 is 64˚, what is the measure of ∠2?

**1.** **PYRAMIDS** A side view of the Great Pyramid at Giza is shown below. The sides of the pyramid make an angle of 52˚ with respect to the ground. What is the value of *x*?

*x***°** 52**°**

**Course 3** • Two- and Three-Dimensional Geometry

DATE PERIOD

NAME

