**120**

**2.** **BRIDGE** Arturo is designing a bridge for science class using parallel supports for the top and bottom beam. Find *m*∠2 if *m*∠1 = 60°.

1

1

**1.** **SYMBOLS** The symbol below is an equal sign with a slash through it. It is used
to represent *not equal to* in math, as in
1 ≠ 2. If *m*∠1 = 108°, classify the relationship between ∠1 and ∠2. Then find *m*∠2. Assume the equal sign
consists of parallel lines.

≠

**Problem-Solving Practice**

***Lines***

**6.** **ART** The drawing below shows the side view of a drawing easel. The brace is parallel to the ground. If *m*∠*A* is 82°, what is the measure of ∠*B*?

*B*

*A*

**5.** **ALGEBRA** Refer to the figure in Exercise 4. If *m*∠1 = 4*x* + 40, and *m*∠5 = 120°, what is the value of *x*?

**4.** **ALGEBRA** In the figure, line *m* is parallel to line *n*. If *m*∠3 = 7*x* – 10 and *m*∠6 = 5*x* + 10, What is the measure of ∠3 and ∠6?

*p*

1 2 *m*

3 4

5 6 *n*

7 8

**3.** **LEG LIFTS** For cheerleading practice, Kiara must be able to lift her legs so that they are parallel to her outstretched arms. For each side of her body, what is the relationship between the angle formed by her arms and the floor and the angle formed by her legs and the floor?

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

2

2

PERIOD

DATE

NAME

