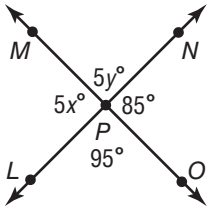
NAME _____ DATE _____ PERIOD _____

Geometry - Lesson 1 Homework Practice

Classify Angles Use the figure at the right to answer Exercises 1–4.

1. Name two angles that are vertical.

2. Name two angles that are adjacent.

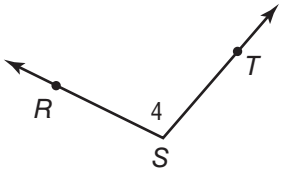


3. Find the value of x.

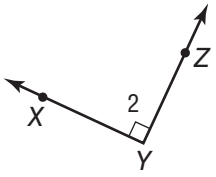
4. Find the value of y.

Name each angle in four ways. Then classify the angle as *acute*, *right*, *obtuse*, or *straight*.

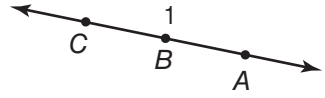
5.



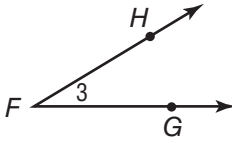
6.



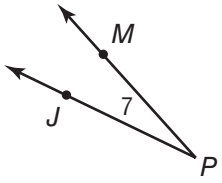
7.



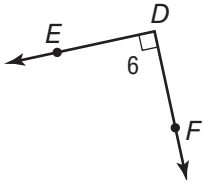
8.



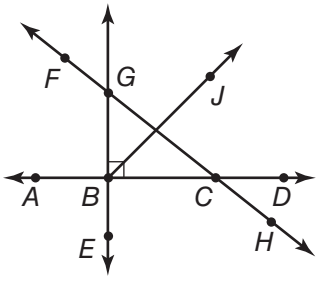
9.



10.



Use the figure at the right to name the following.



11. two acute angles

12. two straight angles

13. two right angles

14. two obtuse angles

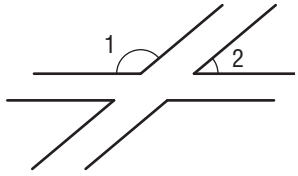
NAME _____ DATE _____ PERIOD _____

Lesson 1 Problem-Solving Practice

Classify Angles

1. CLOCKS The time shown on the clock is 11:05. Starting at this time, approximately what time will it be when the hands form an obtuse angle?

2. AIRPORT The runways at a local airport are sketched in the figure. Classify $\angle 1$ and $\angle 2$ as *acute*, *obtuse*, *right*, or *straight*.

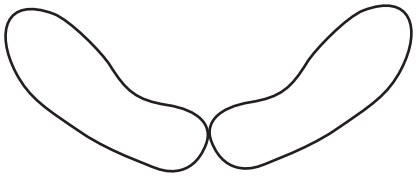


3. ALPHABET Which of the following letters contain at least one acute angle? Which contain vertical angles? Which contain adjacent angles?

A E L X

4. CLOCKS The time shown on the clock is 12:07. After 20 minutes have passed, will the angle formed by the hour and minute hands be *acute*, *obtuse*, *right*, or *straight*?

5. BALLET When a ballet dancer's feet are in first position, the heels are touching, and the feet are turned out. A dancer with excellent technique can position his or her feet so that they are nearly in a straight line. Isabella is practicing her technique. Classify the angle her feet form as *acute*, *obtuse*, or *right*.



6. ARCHITECTURE The plans for a new aquarium call for 2 hallways of exhibits leading out of a circular main room as shown. What is the value of x?