Mathematics

Power Standard 7:9

Pre-Formative Test

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_

1. Use a protractor to measure the following angle.

1. Classify the following angle.
2. acute
3. straight
4. obtuse
5. right
6. Rectangle WXYZ has a length of 8 m and a width of 6 m. Which of the following would be the dimensions of a rectangle that is similar to Rectangle WXYZ?
7. 4 m by 2 m
8. 15 m by 12 m
9. 32 m by 18 m
10. 48 m by 36 m
11. Find the value of *x* in the following pair of similar figures.

 20 m 4 m

 7 m

 x

1. If two rectangles are similar and the ratio of their corresponding sides is 1:4. What is the ratio of their perimeters? Explain your reasoning.
2. A fire hydrant 2.5 feet high casts a 5-foot shadow. How tall is a street light that casts a 26-foot shadow at the same time?