Willard Middle School – Mathematics

FORMATIVE TEST – Power Standard 7:9

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

1. Use a protractor to measure **∠ A** within +/-3°.

A

1. Classify **∠ B.**

B

1. A 163° angle would be classified as:
2. acute
3. obtuse
4. right
5. straight
6. The measurement of the reflex angle of a 50° angle is:
7. 40°
8. 50°
9. 130°
10. 310°
11. Rectangle ABCD has a length of 9 m and a width of 4 m. Which of the following would ***NOT*** be the dimensions of a rectangle that is similar to Rectangle ABCD?
12. 36 m by 16 m
13. 24 m by 10 m
14. 18 m by 8 m
15. 81 m by 36 m
16. Find the value of x in the following pair of similar figures.

 x

 9cm 14 cm

 31.5 cm

1. Triangle ABC and Triangle DEF are similar and the ratio of their perimeters is 2:5, respectively. If the perimeter of Triangle ABC is 14 m, what is the perimeter of Triangle DEF?

1. A 40 ft. tall monument casts a shadow that just reaches the base of a 4 ft. tall parking meter. If the parking meter's shadow is 6.5 long, how far apart are the monument and the meter?
2. Natalie wants to resize a 4-inch wide by 5-inch long photograph for the school newspaper. It is to fit in a space that is 2 inches wide. What is the length of the resized photograph?