

Geometry

Name _____

10.1 Circles and Circumference

Date _____ Hour _____

The radius of $\odot W$ is 5 units. $\odot Z$ has radius of 8 units. $XY = 2$. Find these lengths.

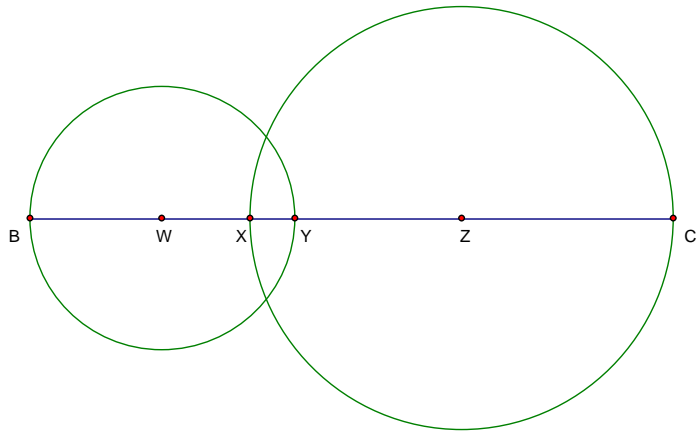
1) BY

2) WY

3) BX

4) YZ

5) BC



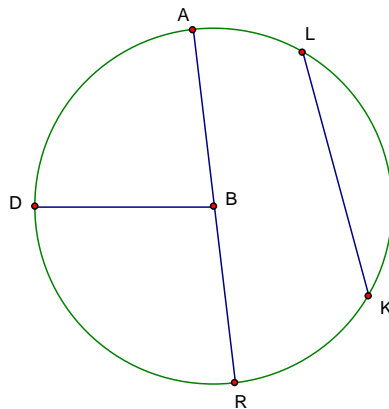
6) What makes two different circles congruent?

7) Name the circle.

8) Name a radius.

9) Name a chord.

10) Name a diameter.



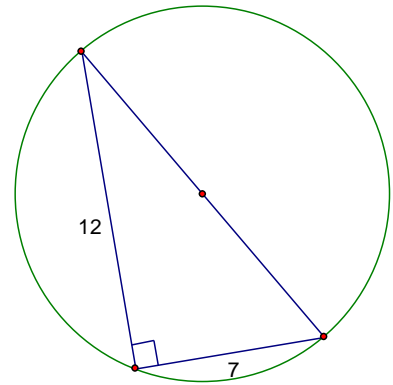
11) The typical diameter of the larger wheel of a Conestoga wagon might be 5 feet. What is the circumference of that wheel?



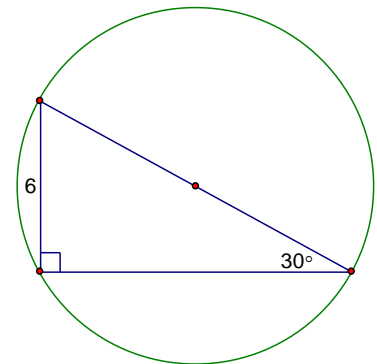
12) Many years ago, my grandpa had a steel fish tank outdoors which he used to hold the fish he caught with a net at a nearby lake. He lived on a farm and this was a convenient way to have fresh fish for dinner. To make the tank he and a friend bent and welded sheets of steel. If the distance around the tank was just under 30 feet then what was the diameter?



13) Find the circumference of this circle to the nearest hundredth.



14) Find the circumference of this circle to 2 decimal places.



15) If circles have the same center, but different radii, then they are called concentric circles.
What are two situations where you have seen concentric circles?