**Test Circles A – Angles & Segments Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**CCGPS Geometry**

**Vocabulary**

1. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ line intersects a circle at exactly one point.

 A. Chord B. Secant

 C. Tangent D. Arc

2. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ arc is less than 180°.

 A. Major B. Minor

 C. Roman D. Semicircle

**Use properties of angles to solve the following.**

5. Find the following measures:

 HIE =

 $\hat{FDG}$ =

 $\hat{HD}$ =

 FIE =

 $\hat{EDG}$

 $\hat{HEG}$

6. mBAC = \_\_\_\_ 7. m$\hat{JM}$ = \_\_\_\_ 8. mOPN = \_\_\_\_



9. Find *x.* 10. Find *x.*



11. Find x. 12. If YX is tangent, how long is WX?

**A**

**B**

**C**

x+16

2x+8

13. If ZA = 15, Find x. 14. The radius of Circle G is 6cm. Find *x.*



**

4

15. Find the length of the diameter $\overbar{JH}$

 Find the length of the segment $\overbar{KL}$

13

12

Assume that lines that appear to be tangent are tangent.



17. Find *x* & *y.* 18. Find *x*, *y,* and *z.*





19. Find the measures of the angles

 A =

 B =

 D =

20. For Bonus:

 +1 What’s the measure of the angle formed by the hands of a clock at 10:00?

 +1 How many degrees does the minute hand movein 2 and a half hours?