Geometry Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Formative Assessment #2

Unit 4 – Circles Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_

SHOW ALL WORK FOR FULL CREDIT.

1. Identify each statement as true or false. *(1 mark each)*

a. The degree measure of an arc is equal to half the measure of its central angle. \_\_\_\_\_\_\_\_\_\_\_\_\_

b. Two inscribed angles intercepting the same arc are congruent. \_\_\_\_\_\_\_\_\_\_\_\_\_

2. Complete the conjecture:

The opposite angles of a quadrilateral inscribed in a circle are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3. Find the missing measure. 4. Find the measure of .



 Missing measure = \_\_\_\_\_\_\_\_\_  = \_\_\_\_\_\_\_\_\_

5. Find the measure of .6. **is tangent to Circle *D* and .

 Find the value of x.



*= \_\_\_\_\_\_\_\_ x =* \_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. 8.

  *= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * **=** \_\_\_\_\_\_\_\_\_\_\_

9. The circle below has the center marked. Determine the value of *e* and *f*.



 *e =* \_\_\_\_\_\_\_\_

 *f =* \_\_\_\_\_\_\_\_



10. Find the missing measure.

Missing measure = \_\_\_\_\_\_\_\_\_

11. Find the value of x.

x = \_\_\_\_\_\_

12. $\overbar{BE}$ and $\overbar{CF}$ are diameters of the circle $⊙$A. Find the measure of the indicated arc.



 a. $m\hat{FE}$ = \_\_\_\_\_\_\_\_\_ b. $m\hat{CD}$ = \_\_\_\_\_\_\_\_\_

 c. $m\hat{CFD}$ = \_\_\_\_\_\_\_\_ d. $m\hat{EBC}$ = \_\_\_\_\_\_\_\_

 e. $m\hat{CE}$ = \_\_\_\_\_\_\_\_ e. $m\hat{BDF}$ = \_\_\_\_\_\_\_\_



13.

 x = \_\_\_\_\_\_\_\_\_\_

14. Find the .

= \_\_\_\_\_\_\_\_



15.

x = \_\_\_\_\_\_\_\_\_ y = \_\_\_\_\_\_\_\_\_