9.3 Arcs and Angles Guided Practice

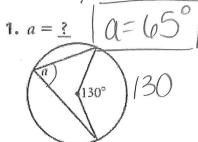
Name: Period:

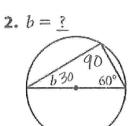
Learning Targets – Arc and Angles

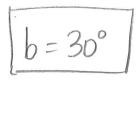
- I can identify and apply the relationships between inscribed angles and intercepted arcs (including semicircles).
- I can identify and apply the relationships of angles in an inscribed quadrilateral.

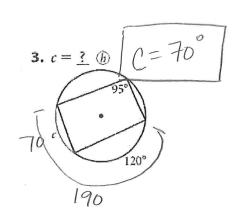
Use your new conjectures to solve Exercises 1–17. For each exercise, explain how you

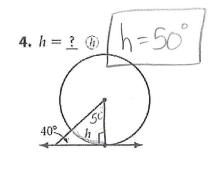
determined your answer.

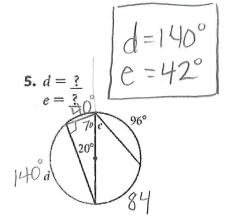


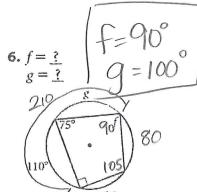




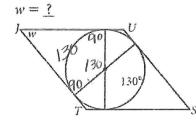








- 7. JUST is a rhombus.



 $W = 50^{\circ}$

8. CALM is a rectangle.

$$x = \frac{?}{!}$$

$$| 4 \rangle$$

$$C$$

$$32 \wedge A$$

$$X$$

$$32+32+x+x=360$$

 $2x=296$
 $x=148^{\circ}$

11. r = ?

9. DOWN is a kite. y = 344, 1360 136

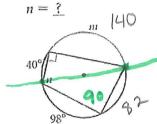
10.
$$k = ?$$

$$k = ?$$

$$7 b$$

76+2K=360 2K = 284

12.
$$m = \frac{?}{?}$$

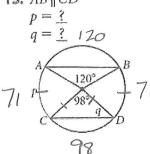


$$n = \frac{1}{2}(140 + 82)$$

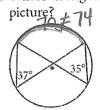
$$n = 111^{\circ}$$
 $m = 140^{\circ}$

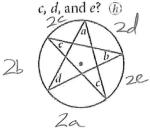
15. y = ? (h)

13.
$$\overline{AB} \parallel \overline{CD}$$



$$\frac{218+2p=360}{2p=142}$$

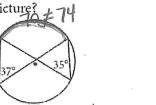




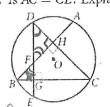
$$2a+2b+2c+2d+2e=360$$

$$2(a+b+c+d+e)=360$$

$$a+b+c+d+e = 180$$



17. Is
$$\widehat{AC} \cong \widehat{CE}$$
? Explain.



Since the the inscribed angles share the exact

Same intercepted arc, By AAM BGF. they should be =. DHF~ABGF.

they should be =.

Therefore LD=LB

and their intercepted ares are also =

AC = EC.

