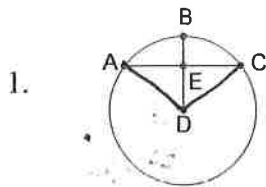
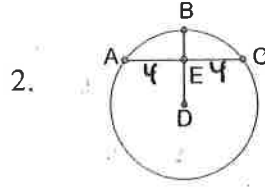


Chapter 8: Circles
Arcs and Chords
Classwork

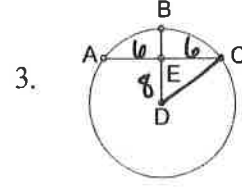
Name Key
Date _____
Period _____



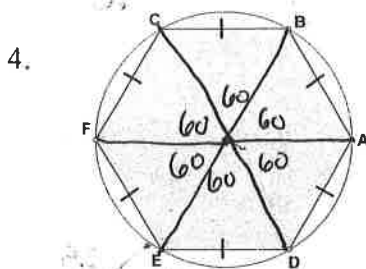
$AC \perp BD$
 $m\widehat{ABC} = 94^\circ$
Find \widehat{AB} 47



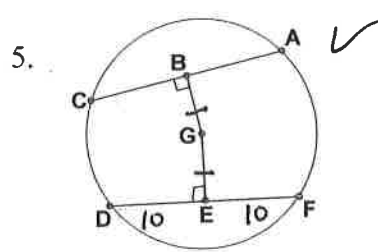
$AC \perp BD$
 $m\widehat{AE} = 4$
Find \widehat{AC} 8



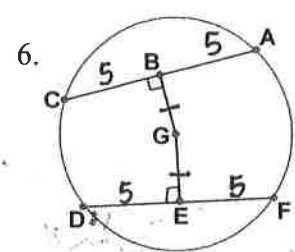
$AC \perp BD$
 $m\widehat{AC} = 12$
 $m\widehat{DE} = 8$
Find the radius 10



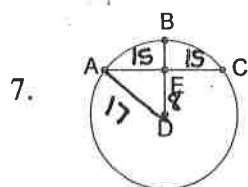
Find \widehat{AB} 60
Find $m\widehat{ABF}$ 180
Find $m\widehat{ABD}$ 300



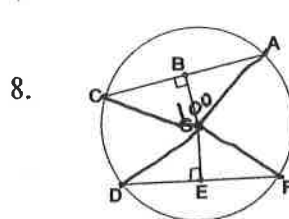
$\overline{GB} \cong \overline{GE}$
 $m\widehat{EF} = 10$
Find \widehat{DF} 20



$\overline{GB} \cong \overline{GE}$
 $m\widehat{EF} = 5$
Find $m\widehat{CA} =$ 10



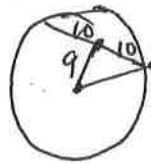
$AC \perp BD$
 $DA = 17$
 $m\widehat{ED} = 8$
Find AC 30



$\overline{AC} \cong \overline{DF}$
 $m\widehat{AC} = 100^\circ$
Find $m\widehat{DF}$ 100

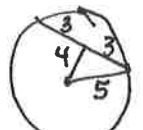
9. Suppose a chord is 9 meters from the center of a circle. It is 20 meters long. Find the length of the radius.

≈ 13.45



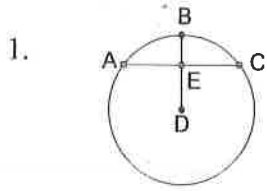
10. Find the length of a chord 4 inches from the center of a circle with a radius of 5 inches.

6

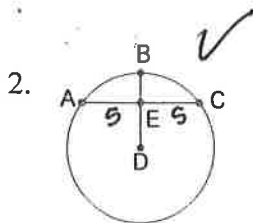


Chapter 8: Circles
Arcs and Chords
Homework

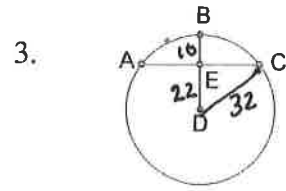
Name Key
Date _____
Period _____



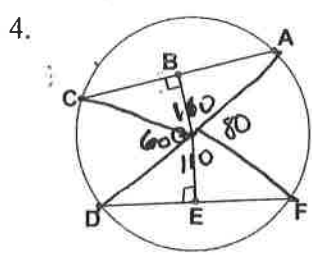
$\overline{AE} \cong \overline{EC}$
Find $m\angle AEB$ 90



$AC \perp BD$
 $m\overline{AC} = 10$
Find $m\overline{AE}$ 5

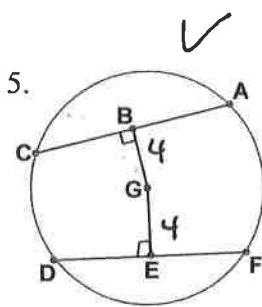


$AC \perp BD$
 $m\overline{ED} = 22$
 $DC = 32$
Find $m\overline{EB}$ 10

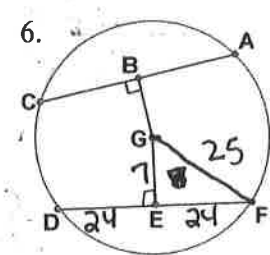


$$\begin{array}{r} 360 \\ -140 \\ \hline 220 \end{array}$$

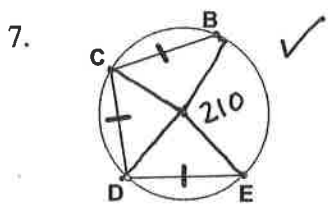
$\overline{AC} \cong \overline{DF}$
 $m\widehat{AF} = 80^\circ$
 $m\widehat{CD} = 60^\circ$
Find $m\widehat{AC}$ 110



$\overline{AC} \cong \overline{DF}$
 $m\overline{BG} = 4$
Find $m\overline{GE}$ 4



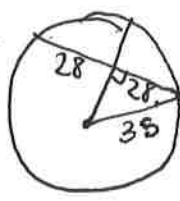
$m\overline{GE} = 7$
 $GF = 25$
Find $m\overline{DF}$ 48



$$\begin{array}{r} 360 \\ -210 \\ \hline 150 \end{array}$$

$m\widehat{BE} = 210^\circ$
Find $m\widehat{CD}$ 50

8. Suppose that a circle has a radius of 35 units and a chord is 56 units. Find the distance from the center to the chord.
21



9. Suppose the diameter of a circle is 20 feet long and a non-intersecting chord is 12 feet long. Find the distance between the chord and the center. 8

