

Mult of 3

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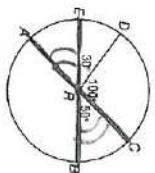
PERIOD _____

Skills Practice

Measuring Angles and Arcs

\overline{AC} and \overline{EB} are diameters of $\odot R$. Identify each arc as a major arc, minor arc, or semicircle of the circle. Then find its measure.

1. $m\widehat{EA}$
2. $m\widehat{CB}$
3. $m\widehat{DC}$ minor arc
4. $m\widehat{DEB}$
5. $m\widehat{AB}$



\overline{PR} and \overline{QT} are diameters of $\odot A$. Find each measure.

6. $m\widehat{CD}$ semicircle
7. If $PC = 11$ inches, find AB .
8. $m\widehat{PQR}$
9. $m\widehat{UTS}$
10. $m\widehat{RS}$
11. $m\widehat{RSC}$
12. $m\widehat{STP}$
13. $m\widehat{PQS}$
14. $m\widehat{FRU}$

Use $\odot D$ to find the length of each arc. Round to the nearest hundredth.

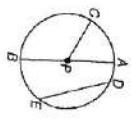
15. \widehat{LM} if the radius is 5 inches
16. \widehat{MN} if the diameter is 3 yards
17. \widehat{KL} if $JD = 7$ centimeters
18. \widehat{NJK} if $NL = 12$ feet
19. \widehat{KLM} if $DM = 9$ millimeters

10-1 Skills Practice

Circles and Circumference

For Exercises 1–7, refer to $\odot P$.

1. Name the circle.
2. Name a radius.
3. Name a chord. \overline{DE} and \overline{AB}
4. Name a diameter.
5. Name a radius not drawn as part of a diameter.



Lesson 10-2

The diameters of $\odot F$ and $\odot G$ are 5 and 6 units, respectively. Find each measure.

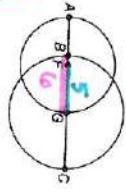
$$8. BF \quad 6 - 5 = 1 \quad 9. AB \quad \frac{AF}{BF} = \frac{5}{1} \quad \therefore AB = 4$$

Find the diameter and radius of a circle with the given circumference. Round to the nearest hundredth.

$$10. C = 36 \text{ m}$$

$$11. C = 17.2 \text{ ft}$$

$$12. C = 81.3 \text{ cm} \quad C = 2\pi r \quad 13. C = 5 \text{ yd}$$



Find the exact circumference of each circle.

14. $d = 3 \text{ cm}$
 15. $r = 8 \text{ ft}$
- $8^2 + 15^2 = d^2$ diameter/hypotenuse
- $$64 + 225 = d^2$$
- $$289 = d^2$$
- $$d = \sqrt{289}$$
- $$d = 17$$

$$7. C = \pi d$$

$$= \pi \cdot 17$$

$$C = 17\pi \text{ ft}$$

X

NAME _____

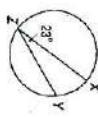
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0-4 Skills Practice**Inscribed Angles**

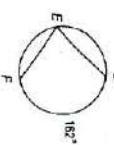
Find each measure.

1. $m \widehat{XY}$



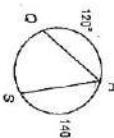
1. $m \widehat{XY}$

2. $m \angle E$



2. $m \angle E$

3. $m \angle R$



3. $m \angle R$

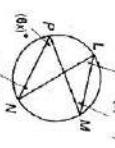
4. $m \overarc{MP}$



4. $m \overarc{MP}$

ALGEBRA Find each measure.

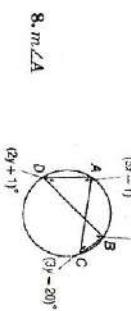
5. $m \angle N$



5. $m \angle N$

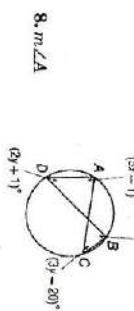
6. $m \angle L$

7. $m \angle C$



7. $m \angle C$

8. $m \angle A$



8. $m \angle A$

9. $m \angle J$



9. $m \angle J$

10. $m \angle K$

11. $m \angle S$

12. $m \angle R$

25

Lesson 10-4

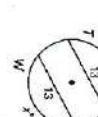
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Skills Practice**Arcs and Chords**ALGEBRA Find the value of x in each circle.

1. $\frac{7x}{2}^\circ$



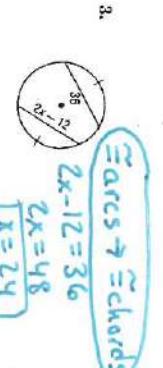
1. $\frac{7x}{2}^\circ$

2. $x = 79$



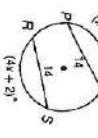
2. $x = 79$

3.



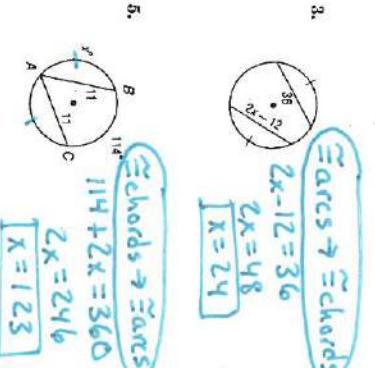
3. $2x = 36$
 $2x = 36$
 $2x = 72$
 $x = 36$

4.



4. $4x = 14$
 $4x = 14$
 $4x = 7$
 $x = 1.75$

5.



5. $2x = 11$
 $2x = 11$
 $2x = 22$
 $x = 11$

6. $2x = 360$
 $2x = 360$
 $2x = 180$
 $x = 90$

6. $2x = 360$
 $2x = 360$
 $2x = 180$
 $x = 90$

measure.

7. $m \overarc{BC} = m \overarc{AC} = 71$

8. $m \overarc{AB}$

10. BD

11. $CD = 30^\circ + x^2 = 34^\circ$

12. DC

In $\odot O$, the radius is 34, $AB = 60$, and $m \overarc{AC} = 71$. Find each

9. $AD = \frac{1}{2} AB = \frac{1}{2} \cdot 60 = 30$

measure.

13. In $\odot U$, $VW = 20$ and $YZ = 5x$. What is x ?

If chords are equidistant from the center, they are \cong

Radius perpendicular and bisects chord

that is \cong

Lesson 10-3

Chapter 10

19. $VW = YZ$

20. $5x = 20$

$x = 4$

$\sqrt{x^2} = \sqrt{256}$

$x = 16$

Glencoe Geometry
If chords are equidistant from the center, they are \cong

Odd #