NAME Answer Key DATE _____ PERIOD _____

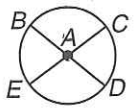
SCORE _____

10

Chapter 10 Quiz 1

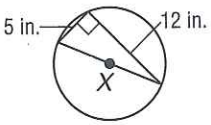
(Lessons 10–1 and 10–2)

1. In $\odot A$, if $BA = 4$, find CE.



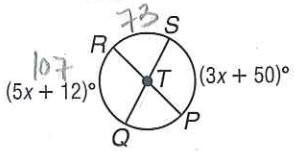
1. 8

2. Find the circumference of $\odot X$ to the nearest hundredth. $5^2+12^2=x^2$, $13=x$



2. 13π in

3. If $\overline{QS}$ and $\overline{PR}$ are diameters of $\odot T$, find $m\widehat{RS}$. $5x+12=3x+50$, $2x=38$, $x=19$

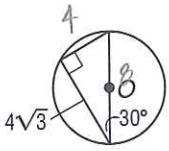


3. 73

4. The diameter of a clock's face is 6 inches. Find the length of the minor arc formed by the hands of the clock at 4:00 to the nearest hundredth. $\frac{120}{360}=\frac{l}{6\pi}$

4. 6.28 in

5. **STANDARDIZED TEST PRACTICE** Find the circumference of $\odot O$ to the nearest hundredth.



A. 4.00 in. **B.** 8.00 in.
C. 12.57 in. **D.** 25.13 in.

5. $8\pi \approx 25.1$ in

NAME _____ DATE _____ PERIOD _____

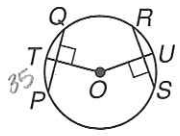
SCORE _____

10

Chapter 10 Quiz 2

(Lessons 10–3 and 10–4)

1. In $\odot O$, $PQ = 20$, $RS = 20$, and $m\widehat{PT} = 35$. Find $m\widehat{RS}$.

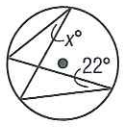


1. 70

2. Find the radius of a circle if a 24-inch chord is 9 inches from the center.

2. 15 in

3. Find x.



$9^2+12^2=r^2$

3. 22°

4. Find the length of each side of a regular hexagon inscribed in a circle with radius 12 centimeters.

4. _____

5. Each side of an inscribed equilateral triangle has length 18 meters. Find the length of one of the minor arcs to the nearest hundredth.

5. _____

Assessments

NAME _____ DATE _____ PERIOD _____

10 Chapter 10 Mid-Chapter Test

SCORE _____

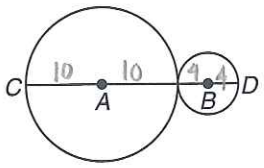
(Lessons 10–1 through 10–4)

Part I ***Write the letter for the correct answer in the blank at the right of each question.***

1. What is the name of the longest chord in a circle? **1.** _____

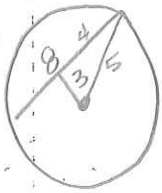
A. diameter **B.** radius **C.** secant **D.** tangent

2. The radius of $\odot B$ is 4 centimeters and the circumference of $\odot A$ is 20π centimeters. Find CD. **2.** _____



A. 10 cm **B.** 14 cm

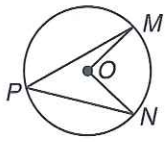
C. 24 cm **D.** 28 cm



3. A chord of $\odot P$ has length 8 inches and the distance from the center to the chord is 3 inches. Find the radius of $\odot P$. **3.** _____

A. 3 in. **B.** 5 in. **C.** $\sqrt{73}$ in. **D.** 10 in.

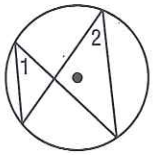
4. If $m\angle MON = 86$, find $m\angle MPN$. **4.** _____



A. 86 **B.** 45

C. 43 **D.** 30

5. Find x if $m\angle 1 = 2x + 10$ and $m\angle 2 = 3x - 6$. **5.** _____



A. 4 **B.** 16

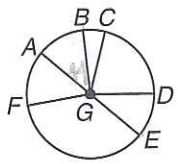
C. 24 **D.** 42

$2x+10=3x-6$

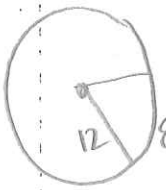
$16=x$

Part II

6. $\overline{AE}$ is a diameter of $\odot G$ and $m\angle BGE = 136$. Find $m\widehat{AB}$. **6.** 44



180-136

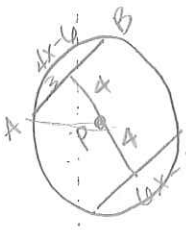


7. A circle with radius 12 inches has an arc that measures 8π inches. Find the measure of the central angle determined by this arc. **7.** 120°

$\frac{A}{360} = \frac{8\pi}{24\pi}$

8. Chord $\overline{AB}$ measures $4x - 6$ centimeters and chord $\overline{CD}$ measures $6x - 12$ centimeters in $\odot P$. If $\overline{AB}$ and $\overline{CD}$ are each 4 centimeters from P, find AP. **8.** 5

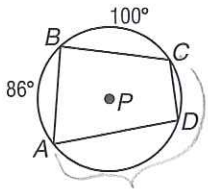
$6x-12=4x-6 \quad x=3$



9. Rectangle $WXYZ$ with length 15 meters and width 8 meters is inscribed in $\odot P$. Find the radius of $\odot P$. **9.** 8.5 m

$8^2+15^2=d^2$

10. Quadrilateral $ABCD$ is inscribed in $\odot P$. Find $m\angle ABC$. **10.** 87



Assessments