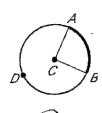
Secondary Math II Unit 11 Day 2 Arc Measure

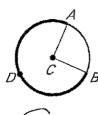
Name the arc shown in bold.

1.



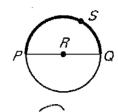
ÁB

2.



ADB

3.



PSQ

 \overline{AB} and \overline{FE} are diameters of $\odot C$. Determine whether the given arc is a minor arc, major arc, or semicircle.

4. AE minor

- 5. AEB semicircle
- 6. FDE semicircle
- 7. DFB major

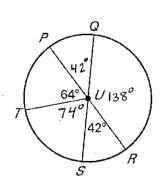
8. FA minor

- 9. BE minor
- 10. BDA semicircle
- 11. FB minor

In the figure, \overline{PR} and \overline{QS} are diameters of $\odot U$. Find the measure of the indicated arc.

14.
$$m\widehat{ST}$$
 74

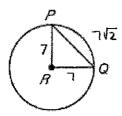
16.
$$\widehat{mRT}$$
 | 16°



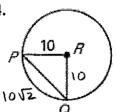
Ÿ

 \widehat{PQ} has a measure of 90° in \odot R Find the length of \overline{PQ} .

23.

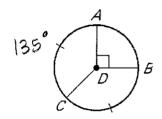


24.

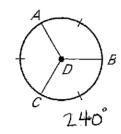


Find the indicated arc measure.

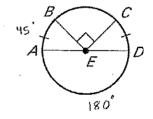
25. m AC



26. m \widehat{ACB}



27. $m \widehat{DAB}$

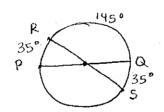


225°

Two diameters of $\odot T$ are \overline{PQ} and \overline{RS} . Find the given arc measure if $\widehat{mPR} = 35^{\circ}$.

28. \widehat{mPS}

1450



- **29.** m PSR
 - 325°

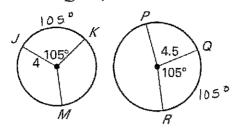
ڔٙ

30. m PRQ 180°

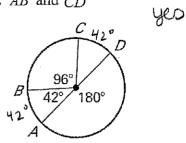
31. mPRS 215°

Tell whether the given arcs are congruent.

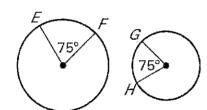
32.
$$\widehat{JK}$$
 and \widehat{QR} NO



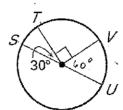
33.
$$\widehat{AB}$$
 and \widehat{CD}



34.
$$\widehat{EF}$$
 and \widehat{GH} NO

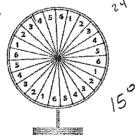


35.
$$\overline{STV}$$
 and \overline{UVT} NO

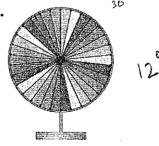


Game Shows Each game show wheel shown is divided into congruent sections. Find the measure of each arc.

36.

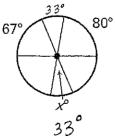


37.

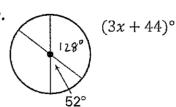


Find the value of x.

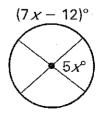
38.



39.



40.

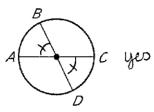


$$3 \times +96 = 180^{\circ}$$

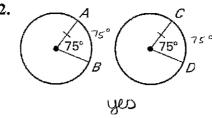
$$3x = 84$$

5x + 7x - 12 = 180 12x - 12 = 180 12x = 192x = 16 Tell whether $\widehat{AB} \cong \widehat{CD}$. Explain.

41.

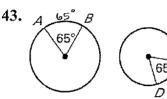


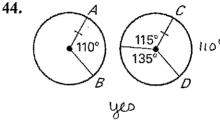
42.



Ecentral angles

10





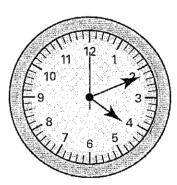
= central angles

= central <'s arc measure =

arclength are not = because circles are not =

Keeping Time In the clock face shown at the right the positions of the numbers determine congruent arcs along the circle.

45. What is the measure of the arc between any two consecutive numbers? 360/12



46. An arc is traced out by the end of the second hand as it moves from the 12 to the 4. Is it a minor arc or a major arc?

minor arc

47. Starting at the 2, what number does the end of the second hand reach as it completes a semicircle?

8

ž

48. When the second hand moves from the 8 to the 3, what is the measure of the arc?

2100

49. The second hand moves from the 3 to the 7. What is the measure of the corresponding major arc? 1700

240° major