Name _____ Date _____

LESSON 10.2

Practice B

For use with the lesson "Find Arc Measures"

In ⊙*F*, determine whether the given arc is a *minor arc*, *major arc*, or *semicircle*.

1. $\overset{\frown}{AB}$

2. $\overset{\frown}{AE}$

3. $\overset{\frown}{EAC}$

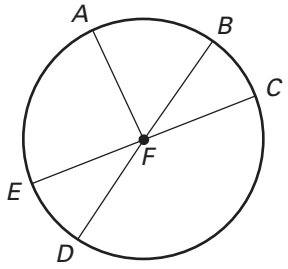
4. $\overset{\frown}{ACD}$

5. $\overset{\frown}{CAD}$

6. $\overset{\frown}{DEB}$

7. $\overset{\frown}{BAE}$

8. $\overset{\frown}{DEC}$



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

9. $m\overset{\frown}{PQ}$

10. $m\overset{\frown}{ST}$

11. $m\overset{\frown}{TPS}$

12. $m\overset{\frown}{RT}$

13. $m\overset{\frown}{RQS}$

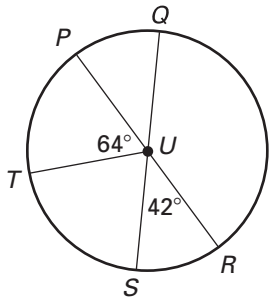
14. $m\overset{\frown}{QR}$

15. $m\overset{\frown}{PQS}$

16. $m\overset{\frown}{TQR}$

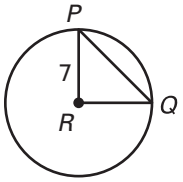
17. $m\overset{\frown}{PS}$

18. $m\overset{\frown}{PTR}$

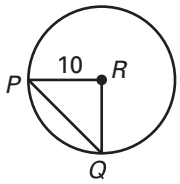


$\overset{\frown}{PQ}$ has a measure of 90° in ⊙*R*. Find the length of $\overline{PQ}$.

19.

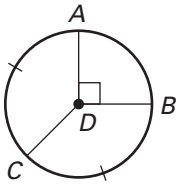


20.

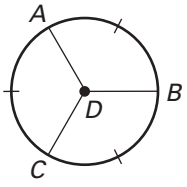


Find the indicated arc measure.

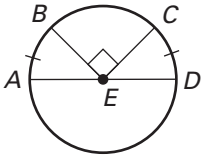
21. $m\overset{\frown}{AC}$



22. $m\overset{\frown}{ACB}$



23. $m\overset{\frown}{DAB}$



Two diameters of ⊙*T* are $\overline{PQ}$ and $\overline{RS}$. Find the given arc measure if $m\overset{\frown}{PR} = 35°$.

24. $m\overset{\frown}{PS}$

25. $m\overset{\frown}{PSR}$

26. $m\overset{\frown}{PRQ}$

27. $m\overset{\frown}{PRS}$

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LESSON 10.2

Practice B *continued*

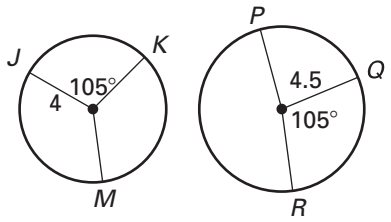
For use with the lesson "Find Arc Measures"

Two diameters of $\odot N$ are $\overline{JK}$ and $\overline{LM}$. Find the given arc measure if $m\overset{\frown}{JM} = 165°$.

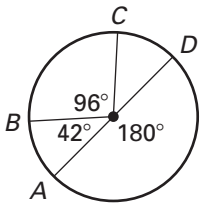
28. $m\overset{\frown}{JL}$ **29.** $m\overset{\frown}{JMK}$ **30.** $m\overset{\frown}{JLM}$ **31.** $m\overset{\frown}{KLM}$

Tell whether the given arcs are congruent.

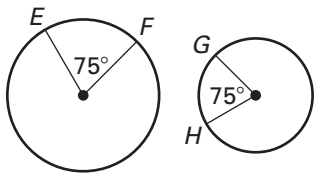
32. $\overset{\frown}{JK}$ and $\overset{\frown}{QR}$



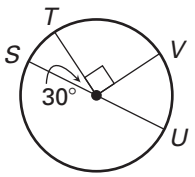
33. $\overset{\frown}{AB}$ and $\overset{\frown}{CD}$



34. $\overset{\frown}{EF}$ and $\overset{\frown}{GH}$

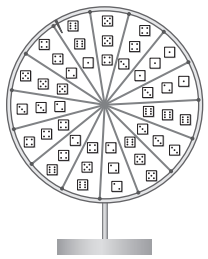


35. $\overset{\frown}{STV}$ and $\overset{\frown}{UVT}$

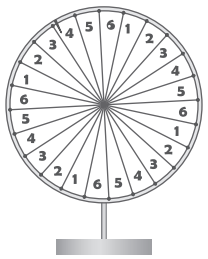


Game Shows **Each game show wheel shown is divided into congruent sections. Find the measure of each arc.**

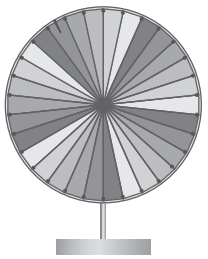
36.



37.



38.



In Exercises 39 and 40, use the following information.

Sprinkler A water sprinkler covers the area shown in the figure. It moves through the covered area at a rate of about 5° per second.

39. What is the measure of the arc covered by the sprinkler?

40. If the sprinkler starts at the far left position, how long will it take for the sprinkler to reach the far right position?