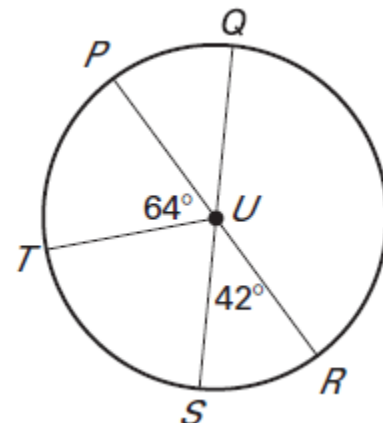


Name \_\_\_\_\_ Hour \_\_\_\_\_

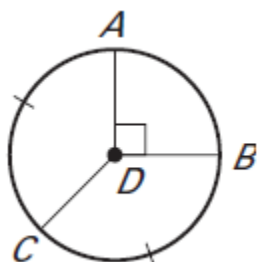
$\overline{PR}$  and  $\overline{QS}$  are diameters of circle  $U$ . Find the measure of the indicated arc.

1.  $PQ$
2.  $ST$
3.  $TPS$
4.  $RT$
5.  $RQS$
6.  $QR$
7.  $PQS$
8.  $TQR$
9.  $PS$
10.  $PTR$

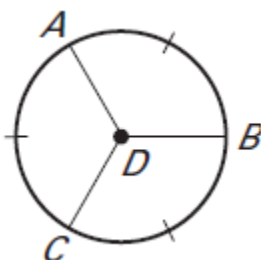


Find the measure of the indicated arc.

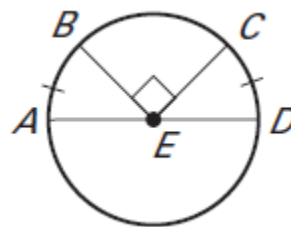
11.  $AC$



12.  $ACB$

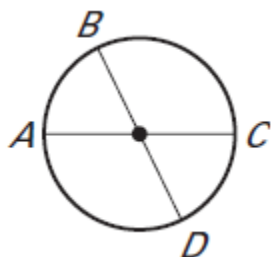


13.  $DAB$

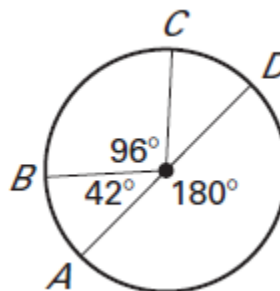


Is  $AB \cong CD$ ? Explain.

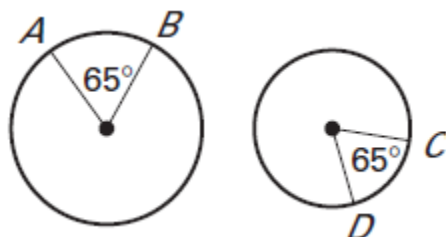
14.



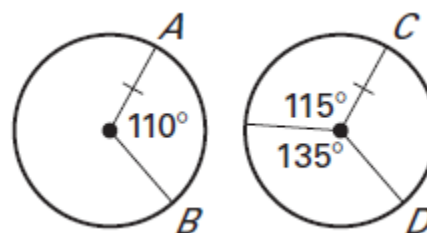
15.



16.



17.

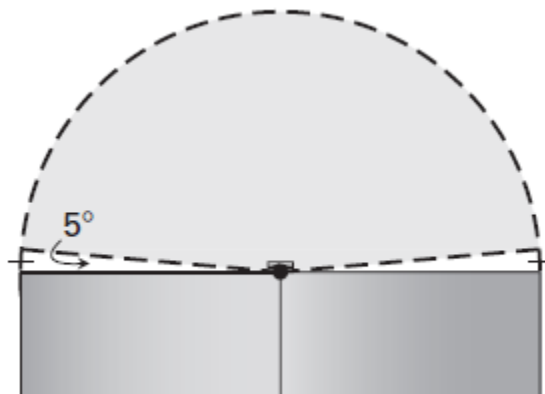


# Arcs

A water sprinkler covers the area shown in the figure. It moves through the covered area at a rate of about  $5^\circ$  per second.

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

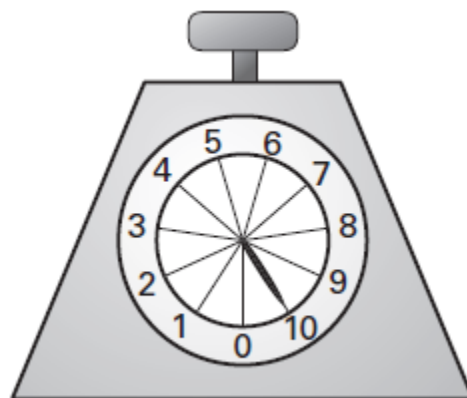
19. If the sprinkler starts at the far left position, how long will it take for the sprinkler to reach the far right position?



The device shown is a 10-second game timer. The timer is started at 10 (as shown) and moves counterclockwise. Players often start and stop the timer several times before it reaches zero. Give all answers to the nearest hundredth.

20. What is the measure of the arc traced out by the tip of the pointer as it moves from one number to the next on the timer?

21. What is the measure of the arc traced out as the pointer moves from the 10 to the 0?



22. A player starts the timer at the 10 and stops it after 3.4 seconds. What is the measure of the arc generated?

23. A player stops the timer after 2.4 seconds, then after 1.3 seconds, and again after 3.5 seconds. What is the sum of the measures of the arcs generated?

24. How much time does it take the pointer to trace out an arc of  $60^\circ$ ?

25. How much times does it take the pointer to trace out an arc of  $270^\circ$ ?