

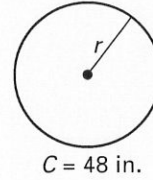
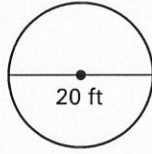
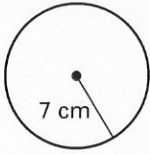
**LESSON**  
**11.1**

**Practice A**

For use with the lesson "Circumference and Arc Length"

Use the diagram to find the indicated measure.

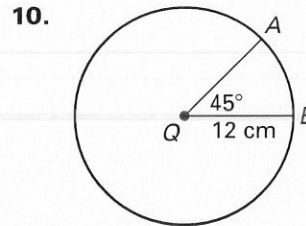
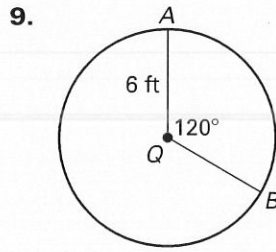
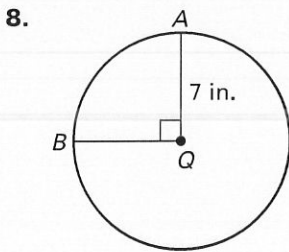
1. Find the circumference.
2. Find the circumference.
3. Find the radius.



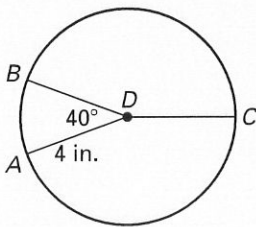
Find the indicated measure.

4. The exact radius of a circle with circumference 36 meters
5. The exact diameter of a circle with circumference 29 feet
6. The exact circumference of a circle with diameter 26 inches
7. The exact circumference of a circle with radius 15 centimeters

Find the length of  $\widehat{AB}$ .



In  $\odot D$  shown below,  $\angle ADC \cong \angle BDC$ . Find the indicated measure.



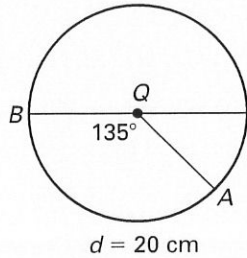
- |                               |                               |
|-------------------------------|-------------------------------|
| 11. $m\widehat{ACB}$          | 12. $m\widehat{CB}$           |
| 13. Length of $\widehat{ACB}$ | 14. Length of $\widehat{CB}$  |
| 15. $m\widehat{ABC}$          | 16. Length of $\widehat{BAC}$ |

**LESSON**  
**11.1**

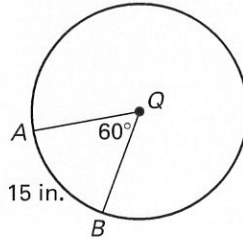
**Practice A** *continued*  
For use with the lesson "Circumference and Arc Length"

**Find the indicated measure.**

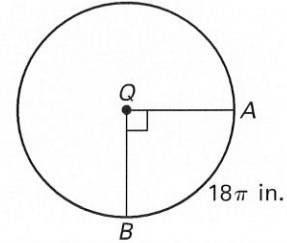
17. Length of  $\widehat{AB}$



18. Circumference of  $\odot Q$

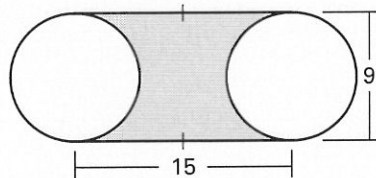


19. Radius of  $\odot Q$

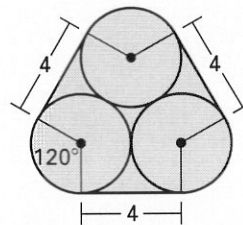


**Find the perimeter of the region.**

20.



21.

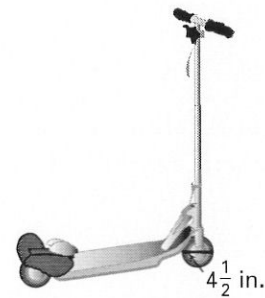


22. In the table below,  $\widehat{AB}$  refers to the arc of a circle. Complete the table.

<b>Radius</b>	3	9			12	10.5
<b><math>m\widehat{AB}</math></b>	$60^\circ$		$35^\circ$	$145^\circ$		$290^\circ$
<b>Length of <math>\widehat{AB}</math></b>		17.28	5.19	12.65	16.76	

23. **Scooter Wheel** The wheel on a manual scooter has a diameter of  $4\frac{1}{2}$  inches as shown.

- Find the circumference of the wheel.
- How many feet does the wheel travel when it makes 150 revolutions? Round to the nearest foot.



24. **Birthday Cake** A birthday cake is sliced into 8 equal pieces. The arc length of one piece of cake is 6.28 inches as shown. Find the diameter of the cake.

