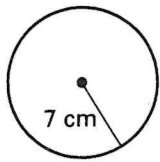
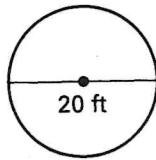


Use the diagram to find the indicated measure.

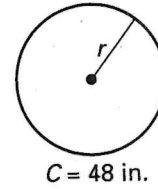
1. Find the circumference.



2. Find the circumference.



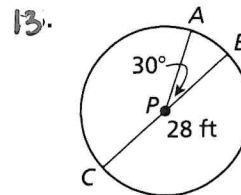
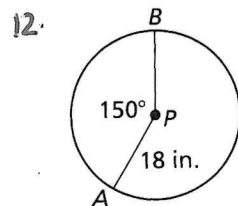
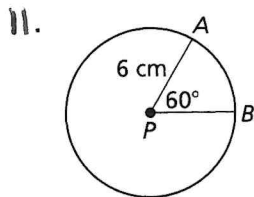
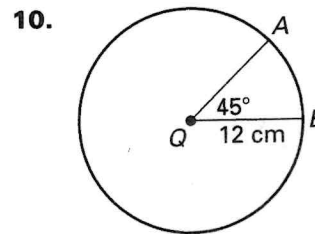
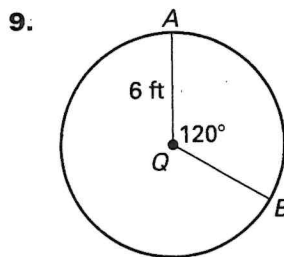
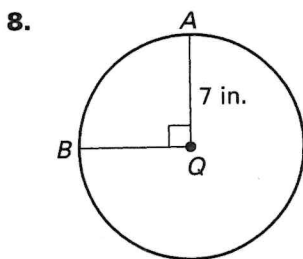
3. Find the radius.



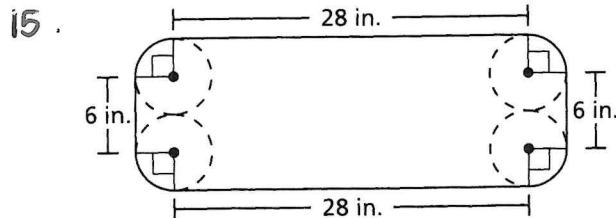
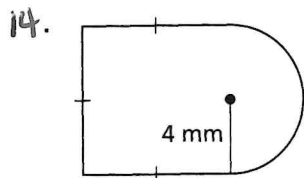
Find the indicated measure.

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 Exercises 14 & 15 find the perimeter of the region.



In Exercises 16-19, convert the angle measure.

16. Convert 60° to radians.

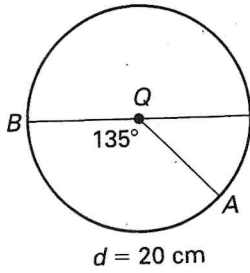
17. Convert $\frac{5\pi}{4}$ radians to degrees.

18. Convert 105° to radians

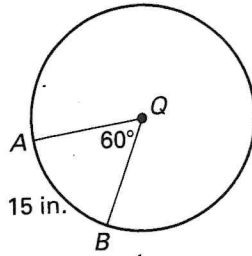
19. convert $\frac{2\pi}{3}$ radians to degrees

Find the indicated measure.

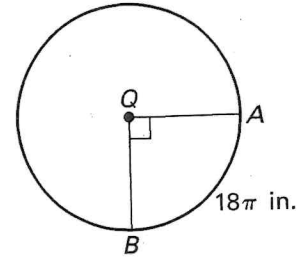
17. Length of \widehat{AB}



18. Circumference of $\odot Q$

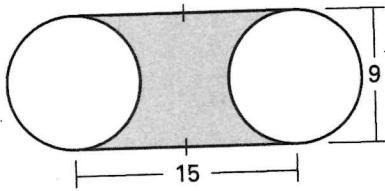


19. Radius of $\odot Q$

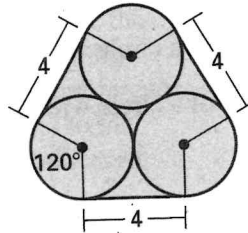


Find the perimeter of the region.

20.



21.



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

Radius	3	9			12	10.5
$m\widehat{AB}$	60°		35°	145°		290°
Length of \widehat{AB}		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.

