Name _____ Date _____

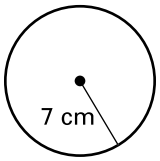
LESSON 11.1

Practice A

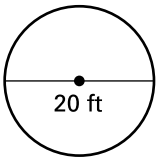
For use with the lesson "Circumference and Arc Length"

Use the diagram to find the indicated measure.

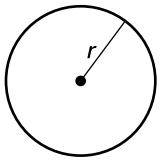
1. Find the circumference.



2. Find the circumference.



3. Find the radius.



$C = 48$ in.

Find the indicated measure.

4. The exact radius of a circle with circumference 36 meters

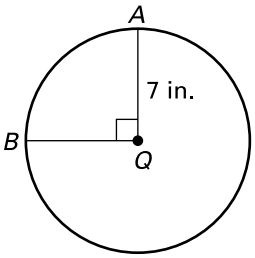
5. The exact diameter of a circle with circumference 29 feet

6. The exact circumference of a circle with diameter 26 inches

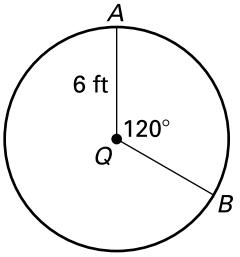
7. The exact circumference of a circle with radius 15 centimeters

Find the length of $\overset{\frown}{AB}$.

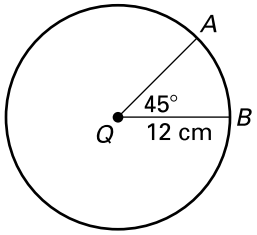
8.



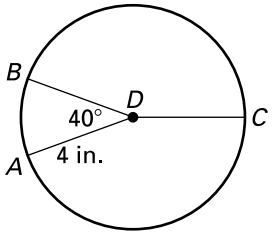
9.



10.



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



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

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

13. Length of $\overset{\frown}{ACB}$

14. Length of $\overset{\frown}{CB}$

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

16. Length of $\overset{\frown}{BAC}$

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Name _____ Date _____

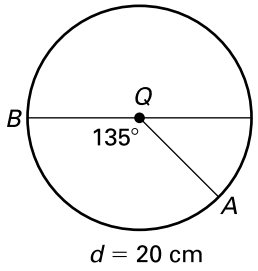
LESSON 11.1

Practice A *continued*

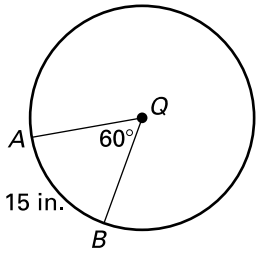
For use with the lesson "Circumference and Arc Length"

Find the indicated measure.

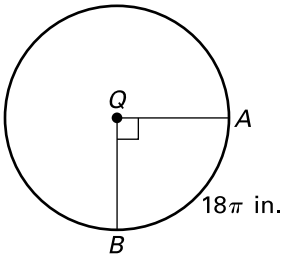
17. Length of $\overset{\frown}{AB}$



18. Circumference of $\odot Q$

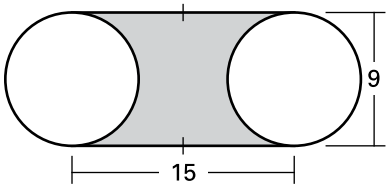


19. Radius of $\odot Q$

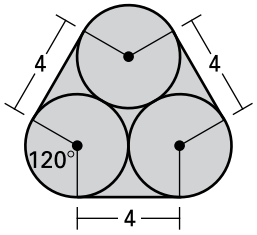


Find the perimeter of the region.

20.



21.



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

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

a. Find the circumference of the wheel.

b. 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.

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