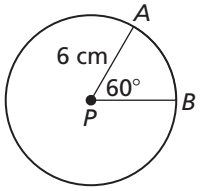
Name _____ Date _____

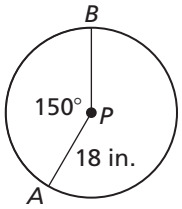
11.1 Practice A

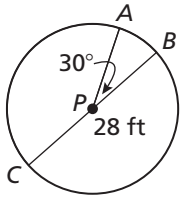
In Exercises 1–4, find the indicated measure.

1. radius of a circle with a circumference of 42π meters
2. circumference of a circle with a radius of 27 feet
3. circumference of a circle with a diameter of 15 inches
4. diameter of a circle with circumference 39 centimeters
5. Maple trees suitable for tapping for syrup should be at least 1.5 feet in diameter. You wrap a rope around a tree trunk, then measure the length of the rope needed to wrap one time around the trunk. This length is 4 feet 2 inches. Explain how you can use this length to determine whether the tree is suitable for tapping.

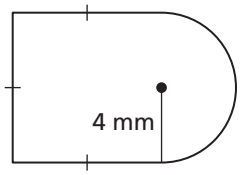
In Exercises 6–8, find the arc length of $\overset{\frown}{AB}$.

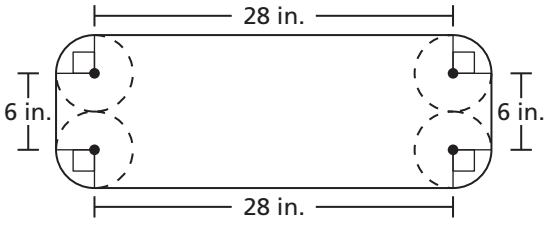
6. 

7. 

8. 

In Exercises 9 and 10, find the perimeter of the region.

9. 

10. 

In Exercises 11 and 12, convert the angle measure.

11. Convert $60°$ to radians.
12. Convert $\frac{5\pi}{4}$ radians to degrees.
13. A carousel has a diameter of 50 feet. To the nearest foot, how far does a child seated near the outer edge travel when the carousel makes 8 revolutions?