

**11.1 Practice WS**

In Exercises 1–4, find the indicated measure. Draw and label your image.

1. radius of a circle with a circumference of  $42\pi$  meters

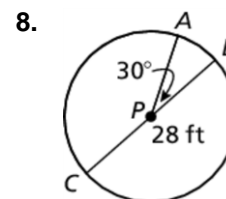
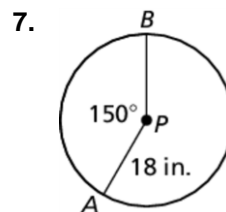
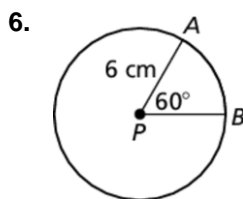
2. circumference of a circle with a radius of 27 feet

3. circumference of a circle with a diameter of 15 inches

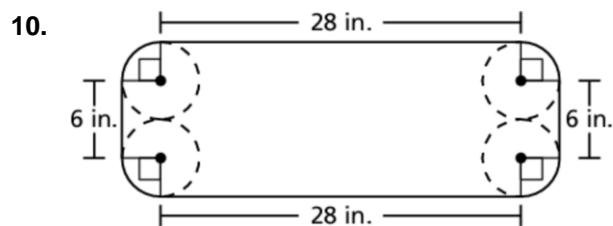
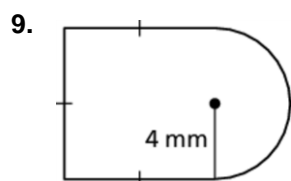
4. diameter of a circle with circumference 39 centimeters

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  $AB$ .



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



In Exercises 11 and 12, convert the angle measure.

11. Convert  $60^\circ$  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?

