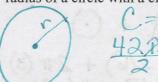
Practice WS

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

1. radius of a circle with a circumference of 42π meters



 $\frac{42\pi}{2} = \frac{\pi(2)r}{2} = \frac{|r-2|m|}{2}$

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



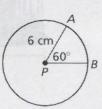
C= Td

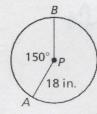
5. Maple trees suitable for tapping for syrup should be at least 1.5 feet in diameter. You wrap a rope around a tree trunk, then measure the length of the rope needed to wrap one time around the trunk. This length is 4 feet 2 inches. Explain how you can use this length to determine whether the tree is suitable for tapping.

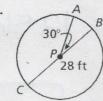
diameter of the tree. Because the diameter is 50 1 x 15.915 in, which is less Than 18 in, The tree is not suitable for tapping

In Exercises 6-8, find the arc length of AB.

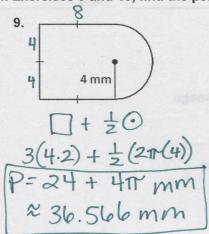
6.

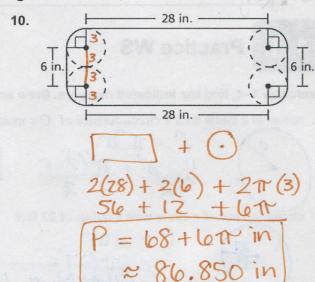






In Exercises 9 and 10, find the perimeter of the region.





In Exercises 11 and 12, convert the angle measure.

11. Convert 60° to radians.

$$60.\frac{\pi}{180} = \frac{60\pi}{180}$$

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

$$\frac{57}{4} \cdot \frac{180}{1} = \frac{900}{4}$$

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?

$$D = 8 (2\pi 25)$$
= 400 11
$$\approx 1256.637 \text{ ft}$$

