# 8-5 Additional Practice

1. a. The circumference of a circle measures 11.27π ft. What is the measure of the diameter of this circle?

2. Circle A has a radius of 21 meters. Circle B has a radius of 28 meters.

    a. Find the circumference of each circle in terms of π.

    b. Reasoning Is the relationship between the radius and circumference the same for all circles? Explain. Ⓒ MP.2

3. The diameter of a circle is 18 m. Eugene claims that the circumference of the circle is about 113.04 m.

    a. What is the circumference of the circle? Use 3.14 for π.

    b. What mistake did Eugene likely make?

4. How much fencing is required to enclose a circular garden whose radius is 14 m? Use $\frac{22}{7}$ for π.

5. What is the diameter of a circle with a circumference of 132 ft? Use $\frac{22}{7}$ for π.

6. How many flowers, spaced every 4 inches, are needed to surround a circular garden with a 200 inch radius? Use 3.14 for π.

7. Wheel A has a diameter of 25.4 inches. Wheel B has a diameter of 22.5 inches.

About how much farther will Wheel A travel in one rotation than Wheel B? Use 3.14 for π. Round your answer to the nearest whole number.

- -

8. Find the circumference of the circle at the right in terms of π.

13 mi
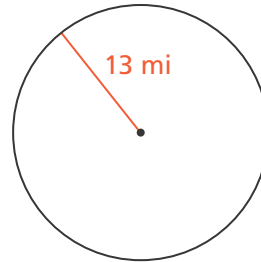
© Assessment Practice

9. Circle Y has a radius of 22 meters and Circle Z has a radius of 27 meters.

a. Find the circumference of each circle in terms of π.

b. By how many meters is the circumference of Circle Z greater than the circumference of Circle Y? Use 3.14 as an approximation for π.

10. The circumference of one coin is 8.03 cm. The circumference of another coin is 0.33 cm smaller.

a. What is the first step to find the diameter of the smaller coin?

Ⓐ Find the radius of the smaller coin.

Ⓑ Find the diameter of the larger coin.

Ⓒ Find the circumference of the larger coin.

Ⓓ Find the circumference of the smaller coin.

b. Find the diameter of the smaller coin.
Use $\frac{22}{7}$ for π.