



PRACTICE



TUTORIAL

Name: _____

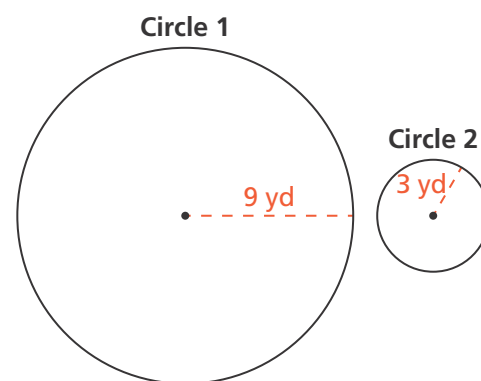
8-6 Additional Practice

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1. A certain coin is a circle with diameter 18 mm. What is the exact area of either face of the coin in terms of π ?
2. The radius of a circular sign is 12 inches. Equal parts of the sign are painted red and yellow. How many square inches are painted each color? Use 3.14 for π .

3. A water sprinkler sprays water outward in a circular pattern. What area will be watered if the radius of the spray from the sprinkler is 18 ft? Write an exact answer in terms of π .

4. How many times greater is the area of Circle 1 than the area of Circle 2? Explain your answer.



5. a. The diameter of Circle J is 18 cm. The diameter of Circle K is 31 cm. Which circle has the greater area and by how much? Use 3.14 for π .

- b. Describe how you can compare the areas of two circles.

6. **Higher Order Thinking** Sandra just finished planting avacados, carrots, radishes, tomatoes, and spinach in her new garden. The garden is a circle whose diameter is 50 yards. If she planted equal regions of each vegetable, what is the area of Sandra's garden that has carrots? Use 3.14 for π .



7. The circumference of a circular patio is 53.38 feet. What is the area of the patio? Use 3.14 for an approximation for π . Round to the nearest tenth.

8. The area of a circular window is 113.04 square inches. What is the diameter of the window? Use 3.14 for π .

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9. The figure is made by attaching semicircles to each side of an 11 ft-by-11-ft square. Find the area enclosed by the figure. Use 3.14 for π . Round to the nearest whole foot. Explain.



10. The diameter of Circle A is 8 inches. The diameter of Circle B is 4 inches greater than the diameter of Circle A. The diameter of Circle C is 4 inches greater than the diameter of Circle B.

PART A

What is the area of each circle? Use 3.14 for π .

PART B

How many times greater is the area of Circle C than the area of Circle A?

