

## 11.6/11.7 Working Backwards with Circumference and Area

Name \_\_\_\_\_

**Formulas needed:** \_\_\_\_\_

Find the radius and diameter of the circle with the given circumference  $C$ .

Use 3.14 for  $\pi$ .

1)  $C = 28.26$  in                      radius = \_\_\_\_\_                      diameter = \_\_\_\_\_

2)  $C = 81.64$  mm                      radius = \_\_\_\_\_                      diameter = \_\_\_\_\_

Find the diameter and the radius of the circle with the given area  $A$ .

Use 3.14 for  $\pi$ .

3)  $A = 200.96$  cm<sup>2</sup>                      radius = \_\_\_\_\_                      diameter = \_\_\_\_\_

4)  $A = 2122.64$  m<sup>2</sup>                      radius = \_\_\_\_\_                      diameter = \_\_\_\_\_

5) A circular garden has an area of  $78.5$  m<sup>2</sup>. Find the circumference of the garden.

6) The circumference of a pizza is 38 inches. What is the area of the pizza?

- 7) A circular yard has a circumference of 21.98 meters. Find the area of the yard.
- 8) The circumference of a pizza is 47.1 inches. What is the area of the pizza rounded to the nearest tenth?
- 9) The rectangular room has an area of  $132 \text{ ft}^2$ . If the length is 12 feet, what is the width of the room?
- 10) The area of a square is  $64 \text{ cm}^2$ . What is the length of one side of the square?
- 11) The area of a square picture frame is 49 square inches. What is the perimeter of the picture frame?