

## Independent Practice

The **circumference** of a **circle** is the distance **around** the circle.

The **area** of a **circle** is the space **inside** the circle.

**Pi** ( $\pi$ ) is the constant ratio of the circumference to the diameter of a circle.

$$\pi \approx 3.14$$

### Solve problems for the area and circumference of a circle.

- 1 Read the problem carefully.
  - a Identify the given information. (underline)
  - b Determine which formula to use.
- 2 Substitute the given information into the formula and solve.
- 3 Interpret the answer. (sketch and explain)

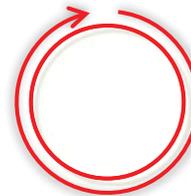
### Circumference

$$C = 2 \cdot r \cdot \pi$$

### Area

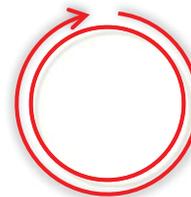
$$A = \pi \cdot r^2$$

1. A platter has a diameter of 14 inches.  
What is the circumference of the platter?



*"The circumference of the platter is \_\_\_\_\_ inches."*

2. A round pool has a radius of 14 feet.  
How long is the edge around the pool?



*"The edge around the pool is \_\_\_\_\_ feet long."*

## Independent Practice (continued)

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### Circumference

$$C = 2 \cdot r \cdot \pi$$

### Area

$$A = \pi \cdot r^2$$

3. A tree stump has a radius of 24 inches.  
How much area is on top of the stump?



*“The top of the stump measures \_\_\_\_\_ square inches.”*

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4. James is replacing a stool top that has a radius of 13 centimeters.  
How much wood is needed to make a new top?



*“The top of the stool will need \_\_\_\_\_ square centimeters of wood.”*