

Geometry: Circle Radius, Diameter, and Circumference Relationships



Use the matching sheet ID when checking answers.

Look at each circle diagram below and solve for the missing radius or diameter measurement.

1. Look at the circle diagram below with radius $r = 7$ cm. What is the length of its diameter?

Answer: B. 14 cm

$$\text{Diameter} = 2 \times \text{radius} = 2 \times 7 \text{ cm} = 14 \text{ cm.}$$

2. Look at the circle below with diameter $d = 18$ in. What is its radius?

Answer: A. 9 in

$$\text{Radius} = \text{diameter} \div 2 = 18 \text{ in} \div 2 = 9 \text{ in.}$$

3. A circular pond has a radius of $r = 12$ m. What is the total diameter across the pond?

Answer: C. 24 m

$$\text{Diameter} = 2 \times \text{radius} = 2 \times 12 \text{ m} = 24 \text{ m.}$$