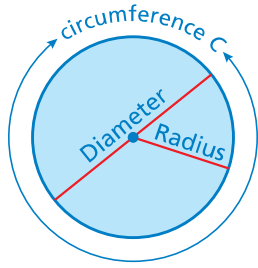


Key Concept and Vocabulary



$$C = \pi d$$

$$C = 2\pi r$$

$$\pi \approx 3.14$$

$$\pi \approx \frac{22}{7}$$



Visual Model

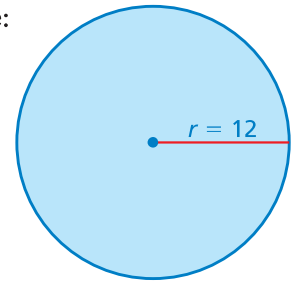
Circumference of a Circle:

$$C = 2\pi r$$

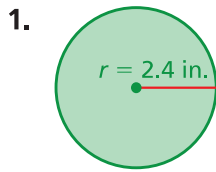
$$= 2\pi(12)$$

$$= 24\pi$$

$$\approx 75.4 \text{ units}$$



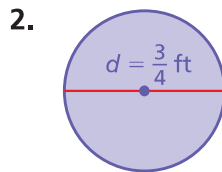
Skill Examples



$$C = 2\pi(2.4)$$

$$= 4.8\pi$$

$$\approx 15.1 \text{ in.}$$



$$C = \pi\left(\frac{3}{4}\right)$$

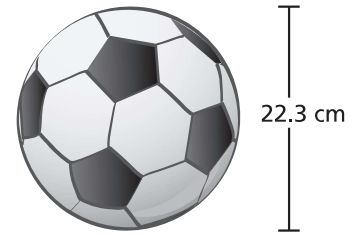
$$\approx 2.4 \text{ ft}$$

Application Example

3. Find the circumference of the soccer ball.

$$C = \pi(22.3)$$

$$\approx 70$$



••• The circumference is about 70 centimeters.

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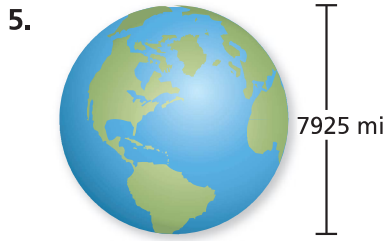


Check your answers at BigIdeasMath.com.

Find the circumference. Round your answer to the nearest tenth. Use 3.14 for π .



Circumference \approx _____



Circumference \approx _____



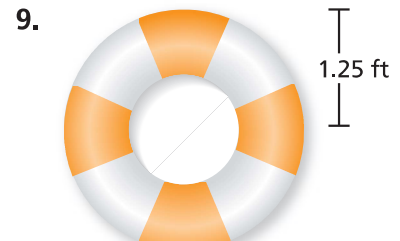
Circumference \approx _____



Circumference \approx _____



Circumference \approx _____



Circumference \approx _____

10. **RACETRACK** A circular racetrack has a circumference of one mile. What is the diameter of the racetrack in feet? Use 3.14 for π . _____

11. **OLD OAK TREE** You have 110 inches of yellow ribbon. The diameter of an oak tree is 38 inches. Do you have enough yellow ribbon to wrap around the oak tree? Explain. Use 3.14 for π .
