Test Review - Circles: Area and Circumference

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ame. 110	

Formulas:
$$C = 2\pi r$$
 $C = \pi d$ $A = \pi r^2$

- 1. An apple pie has a circumference of 30 inches. Which expression can be used to find the approximate radius of the apple pie?
 - a) $30 \div 2$
- b) 30 · 2
- d) 30 · 2π
- 2. The circumference of a can of soup is about 12 inches. What is the approximate diameter of the
 - 4 in
- b) 3 in. c) 2 in.
- d) 6 in.
- 3. The rim of Jan's cereal bowl has a circumference of 12 inches. Which of the following statements is NOT true about Jan's cereal bowl?
 - a) The diameter of the cereal bowl is about 4 inches.
 - b) The radius of the cereal bowl is about 2 inches.
 - (c) The radius of the cereal bowl is about 4 inches.
 - d) The radius of the cereal bowl is half its diameter.
- 4. If a circle has a diameter of 5 centimeters, what is its circumference? Use 3.14 for π .

15.7 cm

5. Estimate first. Then find the actual circumference of the circle using 3.14 for π . Round to the nearest tenth, if necessary.

Estimated Circumference:

15 m

Actual Circumference:

6. The figure below shows a top view of a circular track. How far would a runner go if they went around the entire track one time? Use 3.14 for π .

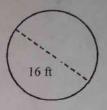
A 50.24 m

16 m

B 96 m

7. If a circle has a diameter of 14 centimeters, what is its area? Use $\frac{22}{7}$ for π .

- 8. Find the area of the circle shown to the right in terms of π .
 - a) 256π ft²
- b) 16π ft²
- c) 32π ft²
- d) 64π ft²



- 9. Which formula could be used to find the area of the circle shown to the right?
 - a) $A = \pi(30)^2$ b) $A = \pi(30)$
 - (c) $A = \pi(15)^2$ d) $A = \pi(15)$



10. A cookie cake has a diameter of 9 inches. What is the approximate area of the cake? Use 3 for π .

60,75 in2

- 11. Which expression could be used to find the diameter of a circle with a radius of 2.75 inches?
 - a) 2.75 ÷ 2
- b) 2.75 · 2
- c) 2.75 · 3
- d) 30 ÷ 3

For questions 12-20, complete the table for circles. Use 3.14 for π Write only your answers inside the chart.

Radius	Diameter	Circumference	Area
4 cm	12) 8 cm	13) 25.12 cm	14) 50.24 cm ²
15) 7 m	14 m	16) 43.96 m	17) 153.86 m ²
18) le ft	19) 12 ft	37.68 ft	20) 113.04 ft ²