Name

Date

Practice C **Puzzler – Circumference and Area of Circles**

 $\begin{array}{l} A = \pi r^2 \\ C = \pi d \text{ or } C = 2\pi r \end{array} \quad d = \frac{c}{\pi} \end{array}$

Find the circumference, area, diameter, or radius using the given information. Use 3.14 for π , and round answers to the nearest <u>tenth</u>. Number one has been completed for you.



Name __

$$A = \pi r^{2}$$

$$C = \pi d \text{ or } C = 2\pi r$$

$$d = \frac{C}{\pi}$$

Getting Real with Circumference Prace and Area of Circles

Practice D

Answer the following word problems. Use 3.14 for π . Round answers to the nearest <u>hundredth</u>, and be sure to label all answers.



- The center circle of a basketball court has a diameter of 12 feet. What is the area of the circle?
- 2. The opening of a giant sink hole has a diameter of 19.5 meters. What is the circumference of the sink hole?
- 3. An American quarter has a radius of 12.3 mm. What is the circumference of a quarter?



4. A round Jacuzzi has a diameter of 8.2 feet. How much area will the Jacuzzi take up on a patio?



- 5. The tire on a giant dump truck has a circumference of 47.1 feet. What is the diameter of the tire?
- 6. The Oakdale County Park is a perfect circle with a diameter of 1 kilometer. What is the area of the park?
- 7. Gordon the Goat is tethered to a post in the middle of a barnyard with a 14.5 foot rope. He can walk 360° around the post.
 - a. What is the greatest circumference of a circle that Gordon can walk?
 - b. What is the total area of barnyard that this circle covers?
- 8. The circumference of a round picnic table is 18.84 feet. A homeowner who bought the table wants to drill a hole in the very center to insert a sunbrella. If she can find the radius of the table, she will know exactly where to drill the center hole. What is the radius of the picnic table?