

Name: \_\_\_\_\_ Date: \_\_\_\_\_

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**Day 4 – Circumference and Area of Circles**

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

$$A = \pi r^2$$

1. Amber and Jeannette ordered a large pizza and ate half of it. Use the chart below to find the number of square inches the two girls ate of pizza.

Pizza Size	Diameter	Price	Area (in <sup>2</sup> )	Price/Area
Small	12 inches	\$12.50		
Medium	14 inches	\$15.00		
Large	16 inches	\$17.50		
X-Large	18 inches	\$20.00		

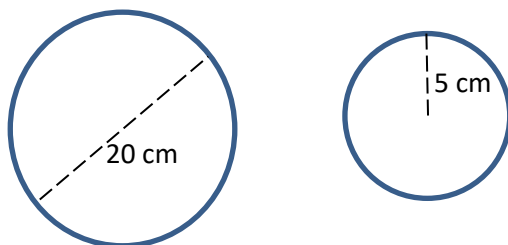
2. Which pizza is the better bargain?

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3. Kira drew a circle with a radius of 20 inches and then another circle with a radius of 10 inches. Compare the areas. What is the approximate difference between the areas of these two circles?

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4. Bicycles are sized by the diameter of their wheels. Maria is purchasing a 26" (diameter) bicycle. How far would she travel with 10 wheel revolutions? Report your answer in approximate inches *and* approximate feet.

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5. Using the rate from the problem above, about how many revolutions would it take her to travel 500 feet?

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6. Compare the circumferences, then find the difference between the circumferences of the circles shown.



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7. Mrs. Apple wants to put border around some circular tables in the cafeteria for Parent Night. Each of the 30 tables has a diameter of 4 feet. About how many feet of border should she order?

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8. If each package of border contains 10 feet and costs \$3.25, how much money will she need?

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9. If the area of a circular rug is approximately  $507 \text{ ft}^2$ , what is the approximate diameter?

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10. Find the distance around the figure below using 3.14 for pi (interior section makes a square).

