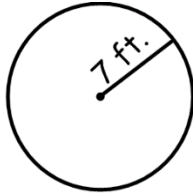


Areas of circles and arc length practice

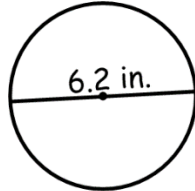
Check for understanding:

1. Find the EXACT area of each circle.

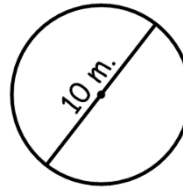
a.



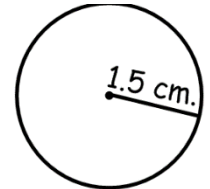
b.



c.



d.



Practice:

1. While on a getaway to Lincoln City, you are overcome with a craving for pizza!!!! So you stop in at Gallucci's Pizzeria. While waiting in the long line to order the delicious pizza, you decide to fill out the chart below to determine the best deals for cheese pizza.

Size (diameter)	Total Area (approx.)	Price	Price per sq. inch	Slices	Area per slice
8"		\$6.50		6	
11"		\$9.25		8	
13"		\$12.75		10	
15"		\$16.50		12	
19"		\$21.95		22	

Using the information above, what is the best buy, and why?

2. Proud of your good work in getting the best deal for pizza, you realize that the crust is your favorite part. You decide to fill out the chart below to determine how much pizza crust each pizza and each piece of pizza should have if cut evenly.

Size (diameter)	Total crust (approx.)	Price	Price per inch of crust	Slices	Crust per slice
8"		\$6.50		6	
11"		\$9.25		8	
13"		\$12.75		10	
15"		\$16.50		12	
19"		\$21.95		21	

If you really love crust, which size should you buy?

3. You get up to the counter and are ready to place your order. The Manager informs you that the 19 inch pizzas are too big to cut into slices, and are instead cut into squares! Based on this new information, what are the side lengths for a piece of the 19 inch pizza?

How much crust would you get?