

$$\frac{CK}{2}$$

$$\frac{EC}{1+}$$

$$\frac{VBS}{2-}$$

Chapter 10 (Circles) Unit Test

Introduction:

When buying a pizza, how do you know which one to buy? What is the best deal?

Task:

As a class, we will discuss the cost of buying pizzas at local establishments. You will then calculate areas and cost to determine value.

Resources:

You will need a ruler and a calculator to complete these activities.

Process:

You will be asked to find the radius, diameter, circumference, area, and price of pizzas per square inch. (This information will be recorded in a table provided to you.)

Evaluation:

1. Complete the table provided for you (use **3.14** for pi). This is worth 24 points of your project.

2. Answer the following questions. Please write legibly and use full sentences. This is worth 10 points of your project. ****Remember spelling and grammar count****

A). What is the price per topping for a small, medium, and large pizza? Does this price change in relationship to the size of the pizza? How does this compare to real life?

B). What size pizza (including added toppings) is the best buy? How did you determine your answer?

3. Make a pie graph of the following scenario. This is worth 16 points of your project.

A survey at FHS (650 students) was recently given. The students were asked where they prefer to order or go out for pizza. Their choices were Pizza Hut, Bredeaux, Torinos, Caseys, or do not like pizza. 302 prefer Pizza Hut, 198 like Bredeaux, 108 go to Torinos, 35 like to order pizza from Caseys, and 7 do not like pizza.

****Please staple together in this order (table, written responses, graph) and hand in. This chapter test is worth a total of 50 points.****

Chapter 10 (Circles) Unit Test

Name: _____

	SMALL PIZZA	MEDIUM PIZZA	LARGE PIZZA
<u>Radius</u> (centimeters)			
<u>Diameter</u> (centimeters)			
<u>Circumference</u> = πd - round to the nearest tenth (use 3.14 for π)			
<u>Area</u> = πr^2 - round to the nearest tenth (use 3.14 for π)			
<u>Base price</u> (cheese – no toppings)	\$7.00	\$9.50	\$13.00
<u>Price per square centimeter</u> – round to the nearest hundredth			
<u>Base price + one topping</u>	\$8.10	\$10.60	\$14.10
<u>Price per square centimeter</u> – round to the nearest hundredth			
<u>Base price + two toppings</u>	\$9.20	\$11.70	\$15.20
<u>Price per square centimeter</u> – round to the nearest hundredth			
<u>Base price + three toppings</u>	\$10.30	\$12.80	\$16.30
<u>Price per square centimeter</u> – round to the nearest hundredth			

****Note—measure from the center to the end of the pizza pan!!****

Small



Medium



Large



Written Responses

A). What is the price per topping for a small, medium, and large pizza? Does this price change in relationship to the size of the pizza? How does this compare to real life?

B). What size pizza (including added toppings) is the best buy? How did you determine your answer?

Pie Graph

	Percent	Degree
Pizza Hut		
Breadeaux		
Torinos		
Caseys		
Do not like pizza		

