Name _____ Date _____ Class _____

HOW MUCH CHEESE DO WE NEED?

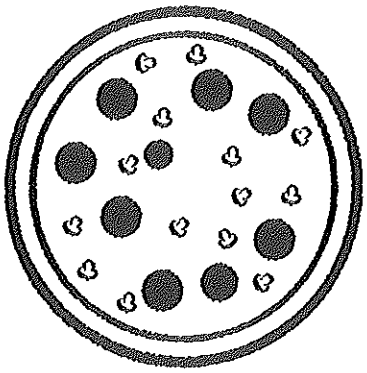
How do we get even more cheese on our pizzas? By stuffing the crust!

In order to find out how much cheese we need, we have to find the *circumference*, or the length around the pizza.

Here we have three sizes of pizzas. Find the circumference of each pie to see how much cheese we need to stuff the crust!

There are TWO formulas used to find circumference. They look different, but they are really the same.

$C = 2\pi r$ or $C = \pi d$

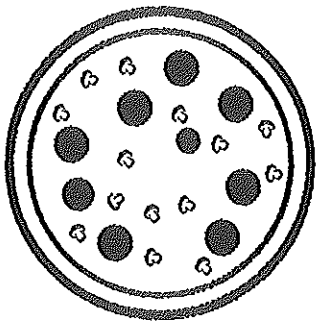


16 inch pie

diameter= _____

radius= _____

circumference = _____

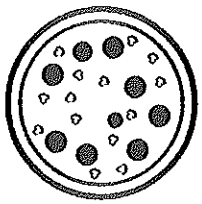


14 inch pie

diameter= _____

radius= _____

circumference = _____



8 inch pie

diameter= _____

radius= _____

circumference = _____

People have discovered that the *circumference* of the circle is **ALWAYS** approximately three times the *diameter* of the circle

3.14 times to be (more) exact

π

3.14 is represented by the symbol π. It is spelled **pi** but pronounced like **PIE**!

How many times longer is the circumference of the 16 inch than the 8 inch pizza?

_____

What happens to the circumference if you decide to change the size of your pizza to double the length?

_____

_____

How does the circumference of the pizza change as you change the length of the pizza?

_____

_____

BONUS! It will take awhile to walk around the biggest pizza in the world. What is the distance around the pizza that has a diameter of 131 feet?