Pizza Crusts and Geometry

These problems give you the chance to:

* Find the areas and perimeters of rectangular and circular shapes in a practical context.

You love stuffed crust pizza. You are going to draw three different types of pizza.

In the space provided, you will need to draw three shapes:

1. These shapes do not have to be drawn to scale
2. It is more important that you label the sides correctly.
3. Draw a square that has an area of 25 inches and label the sides with their lengths
4. Draw a rectangle and label the sides 8 inches and 4 inches.
5. Draw a circle and label the diameter 9 inches

Circumference of a circle (C) = π x diameter (d)

C = πd

Area of a circle (A) = π x radius squared (r2)

A = πr2

1. How many inches of stuffed crust are put around the edge of:

a. Square pizza \_\_\_\_\_\_\_\_\_ b. Rectangle pizza \_\_\_\_\_\_\_\_\_ c. Circle pizza \_\_\_\_\_\_\_\_

Explain: Did you figure out the area, or perimeter? How did you know which one to solve for?

1. Here is a square pizza with an area of 36 inches:

36 inches

* 1. What length of stuffed crust will be around the edge?

\_\_\_\_\_\_\_\_\_\_\_\_ inches

Work space:

* 1. Design two rectangular pizzas, each with an area of 36 square inches, with different perimeters. In each case, calculate what the perimeter will be. Label the sides of the rectangles.

Perimeter of Pizza 1: \_\_\_\_\_\_\_\_\_\_\_\_ inches Perimeter of Pizza 2: \_\_\_\_\_\_\_\_\_\_\_\_ inches

1. What is the circumference of a round pizza with an area of 36 square inches?

\_\_\_\_\_\_\_\_\_\_ inches

Explain how you figured this out, step by step.