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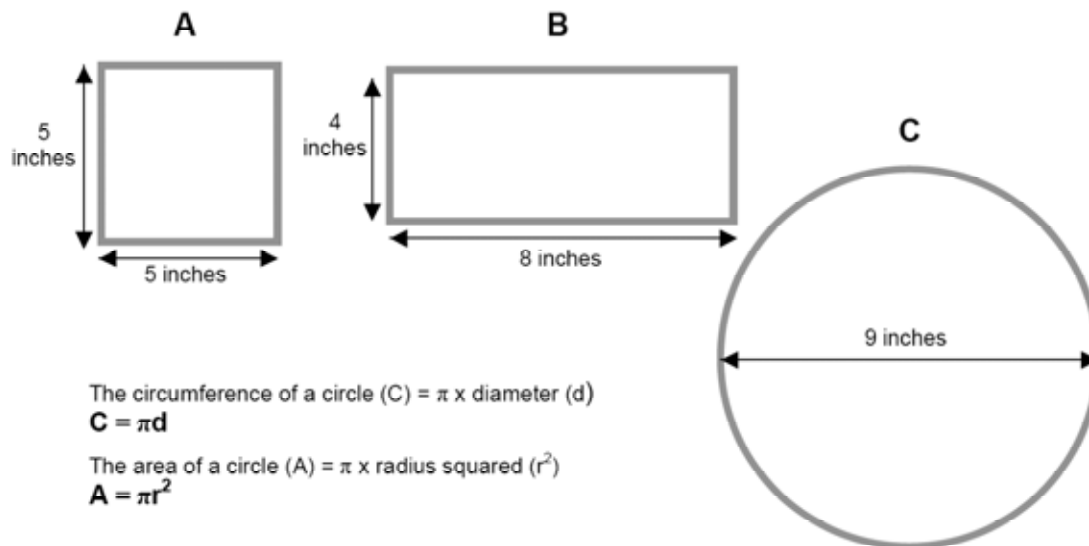
## Pizza Crusts

This problem gives you the chance to:

- find areas and perimeters of rectangular and circular shapes in a practical context
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Robbie loves the stuffed crusts on pizzas.

Here are some stuffed crust pizza shapes that are baked.



1. How many inches of stuffed crust are put around the edge of each of these pizzas?

**A** \_\_\_\_\_ inches

**B** \_\_\_\_\_ inches

**C** \_\_\_\_\_ inches

Show your calculations.

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

(a) What length of stuffed crust will be around the edge?

\_\_\_\_\_ inches



(b) Design two rectangular pizzas, each with an area of 36 square inches, with different perimeters, so that Robbie will have more crust than on the square pizza.

In each case calculate what the perimeter will be.

Pizza 1



Perimeter of Pizza 1 \_\_\_\_\_ inches

Pizza 2



Perimeter of Pizza 2 \_\_\_\_\_ inches

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

\_\_\_\_\_ inches

Explain how you figured this out.

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Pizza Crusts	Rubric	
<p>The core elements of performance required by this task are:</p> <ul style="list-style-type: none"> <li>find areas and perimeters of rectangular and circular shapes in a practical context</li> </ul> <p>Based on these, credit for specific aspects of performance should be assigned as follows</p>	points	section points
<p>1. Gives correct answers:</p> <p>A: <b>20</b> inches and shows work such as: <math>5 \times 4</math></p> <p>B: <b>24</b> inches and shows work such as: <math>8 \times 2</math> plus <math>4 \times 2</math></p> <p>C: <b>28.3</b> inches accept 28 - 29 and shows work such as: <math>9 \times \pi =</math></p> <p><i>Partial credit</i> Three correct answers –no work shown</p>	<p>1</p> <p>1</p> <p>1</p> <p>(1)</p>	<p>3</p>
<p>2. (a) Gives correct answer: <b>24</b> inches</p> <p>(b) Labels a rectangular pizza with dimensions such as: <math>12 \times 3 = 36</math> This has a perimeter of 30 inches. <math>9 \times 4 = 36</math> This has a perimeter of 26 inches.</p>	<p>1</p> <p>1</p> <p>1</p>	<p>3</p>
<p>3. Gives correct answer: <b>21.4</b> inches (accept <b>21</b> inches)</p> <p>Gives correct explanation such as: If <math>\pi r^2 = 36</math> <math>r = 3.4</math> <math>C = \pi \times 2 \times 3.4</math> <math>= 21.4</math></p> <p><i>Partial credit</i> Finds radius <math>r = 3.4</math></p>	<p>1</p> <p>1</p> <p>(1)</p>	<p>2</p>
<b>Total Points</b>		<b>8</b>