



Pre-AP Weekly Project 1.4





Domino Effect: How much does Domino's charge for pizza?

1. Below are prices for a medium 2-topping pizza and a medium 4-topping pizza from Domino's in Washington, D.C. Plot them on your graph and use the information to answer the following questions.

ITEM	PRICE	ITEM	PRICE
 <p>Medium (12") Hand Tossed Pizza Whole: Pepperoni, Green Peppers</p>	\$13.97	 <p>Medium (12") Hand Tossed Pizza Whole: Bacon, Premium Chicken, Green Peppers, Mushrooms</p>	\$16.95

<p>a. Based on the information above, how much do you think Domino's is charging for each topping?</p>	<p>b. A medium 3-topping pizza costs \$15.46. What would it mean if it cost <i>more</i> than this, e.g. \$16?</p>
<p>c. For the 2-topping pizza, how much in total are you spending <i>on toppings</i>? For the 4-topping pizza?</p>	<p>d. If you wanted to order a medium cheese pizza, how much would you expect to spend? Explain.</p>
<p>e. Now write an equation for the price of a medium pizza, and explain what the equation means.</p>	<p>f. Does a pizza with 12 toppings cost twice as much as a pizza with 6 toppings? Why or why not?</p>

2. Below are the prices for two small pizzas and two large pizzas from Domino's. Write an equation to calculate the cost of each size based on the number of toppings you order.

ITEM	PRICE	ITEM	PRICE
 <p>Small (10") Hand Tossed Pizza Whole: Pepperoni</p>	\$9.99	 <p>Large (14") Hand Tossed Pizza Whole: Sliced Italian Sausage, Green Peppers, Roasted Red Peppers, Mushrooms</p>	\$19.75
 <p>Small (10") Hand Tossed Pizza Whole: Premium Chicken, Black Olives, Jalapeno Peppers</p>	\$11.99	 <p>Large (14") Hand Tossed Pizza Whole: Philly Steak</p>	\$14.68

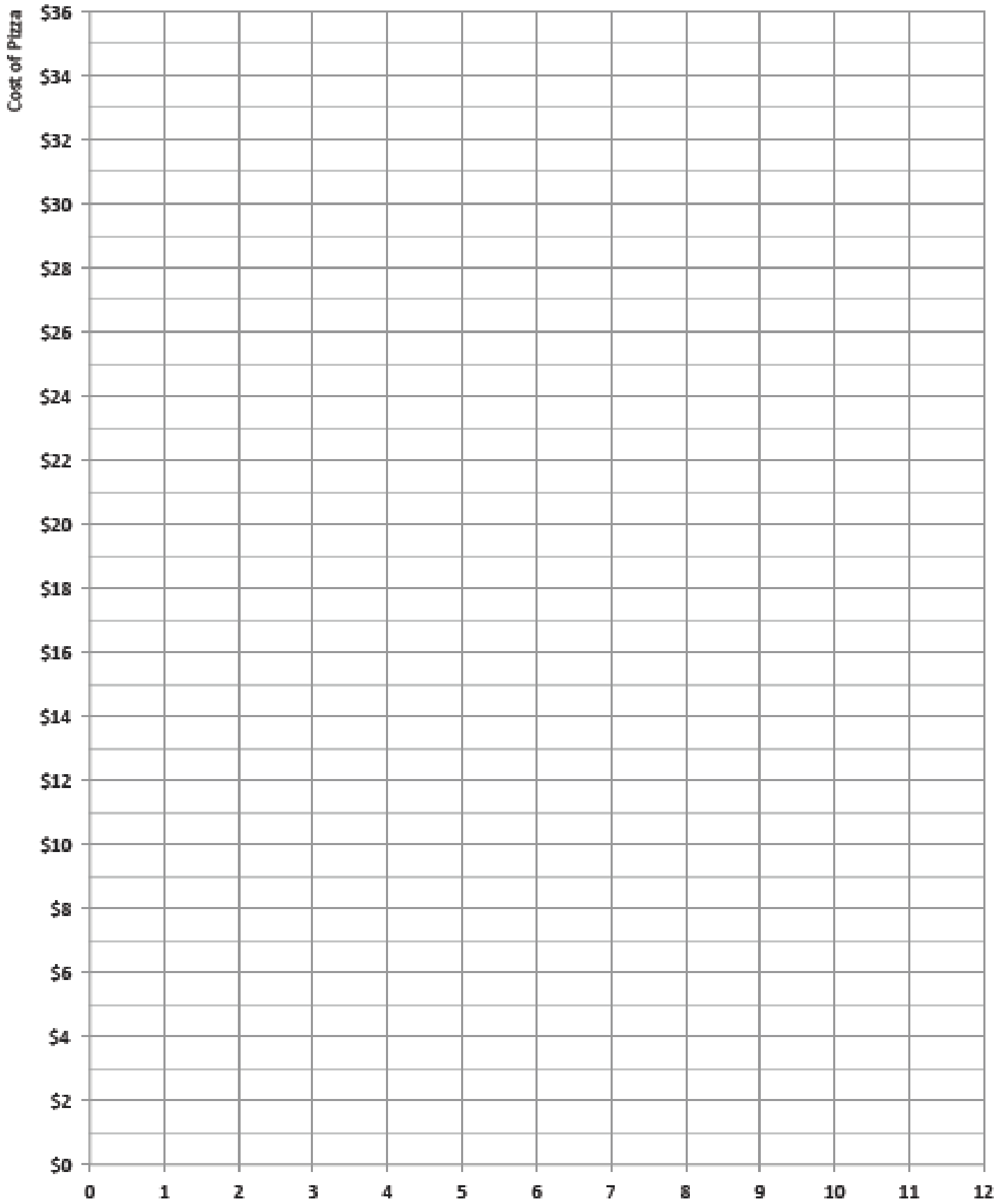
- a. Equation for small pizzas based on number of toppings: _____
- b. Equation for large pizzas based on number of toppings: _____

3. Now graph the equation for each pizza size, and answer the following:

a. Which graph – small, medium, or large – is the steepest, and why do you think it is?

b. Which graph has the lowest starting value, and is this what you'd expect? Explain.

4. Look at the graph of how much Domino's *really* charges for pizza in Washington, D.C. How is the actual situation different than what you expected...and why do you think Domino's does this?



Toppings