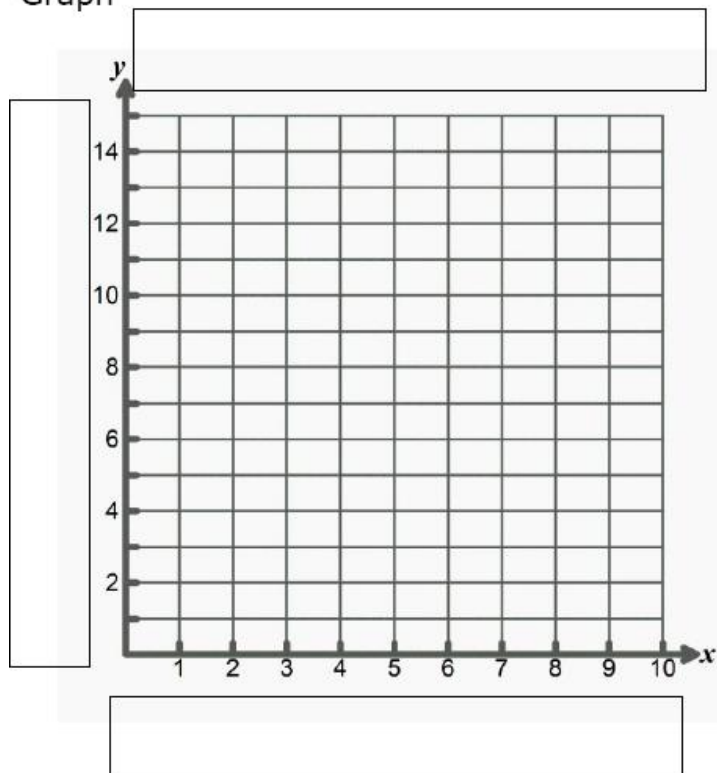


MAKING CONNECTIONS: FUNCTIONS

The price of a small pizza is \$6.00 plus \$0.75 per topping. Complete each representation for this scenario below.

Graph

Number of Toppings, x	Total Cost, y
0	
1	
2	
3	
4	
5	
6	
7	
8	



1. The independent quantity is _____

The dependent quantity is _____

The total cost of the pizza depends on _____.

2. Write a function to represent the relationship between "c", the cost of the pizza, and "t" the number of toppings.

3. What value represents the rate of change? _____

Meaning of the rate of change _____

4. What value represents the y-intercept? _____

Meaning of the y-intercept _____

Rewrite the function from #2: _____

Use it to answer the following questions.

5. If you want 5 toppings and double each topping what will the pizza cost? _____

6. Suppose you have \$15 to spend on pizza. How many toppings can you order? _____

7. Suppose the price of each topping changed to \$0.50.

How would this change the equation? _____

New Function: _____

Effects on the graph: _____

8. Suppose the price of a pizza with no toppings was changed to \$5.00 and the price of each topping remained \$0.75.

How would this change the equation? _____

New Function: _____

Effects on the graph: _____

With your \$15, you can now afford _____ toppings.