

Warm Up:

A pizza place charges \$8.00 for a basic cheese pizza and then \$1.25 per topping.

a) Write an equation to represent this situation. Be sure to define your variables.

$C = 1.25n + 8$ where C is the total cost (\$),
 n is the number of toppings

b) Determine how many toppings you could get for \$13.00.

$13 = 1.25n + 8$

$13 - 8 = 1.25n + 8 - 8$

$1.25n = 5$

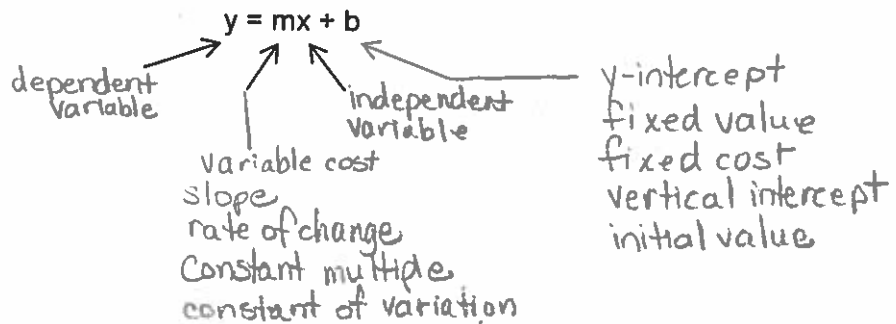
$\frac{1.25n}{1.25} = \frac{5}{1.25}$

$n = 4$

∴ we could get 4 toppings.

GENERAL FORM OF A LINEAR EQUATION

y-intercept	b
Independent variable	x
Fixed value	b
Fixed cost	b
Variable cost	m
Dependent variable	y
Slope	m
Rate of change	m
Vertical intercept	b
Constant multiple	m
Initial value	b
Constant of variation	m



For the Test, I need to know how to:

- Identify if a relation is partial or direct based on words, equation, table of values or graph.
- Identify if a situation is linear given a table of values (by finding first differences and Δx).
- Interpret graphs of linear relations.
- Create a graph for a linear relation.
- Create an equation for a linear relation.
- Determine the slope from a graph, table of values or equation.
- Determine the initial/fixed value (y-intercept) from a graph, table of values or equation.
- Determine values in a linear relation using a graph, table of values or equation.
- Given one point and the slope, determine the location of another point on the line.
- Given one point on the line and the slope, graph the line.

Today's practice Questions:
 Pages 288-289 #1-16, Page 290 # 1-10