Unit 5: Linear Relations I (Chapter 5 in textbook!)
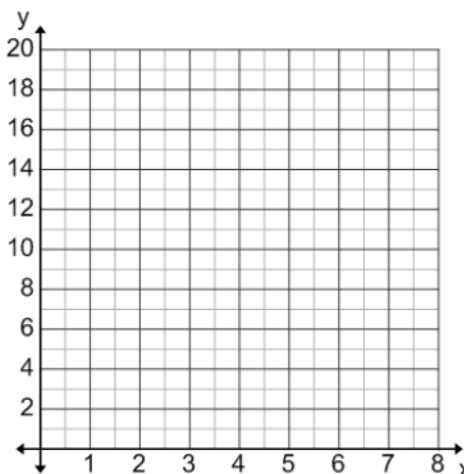### Day 5 - Partial Variation

Today we will...

   1. Define partial variation.

   2. Determine how to identify problems involving partial variation.

   3. Differentiate between direct and partial variation.

Ex. 1 A medium pizza costs $7 plus $1.50 per topping.

a) Identify the fixed cost and the variable cost.

b) Determine the equation relating cost, C, in dollars and the number of toppings, n.

c) Use the equation to determine the cost of a medium pizza with 6 toppings.
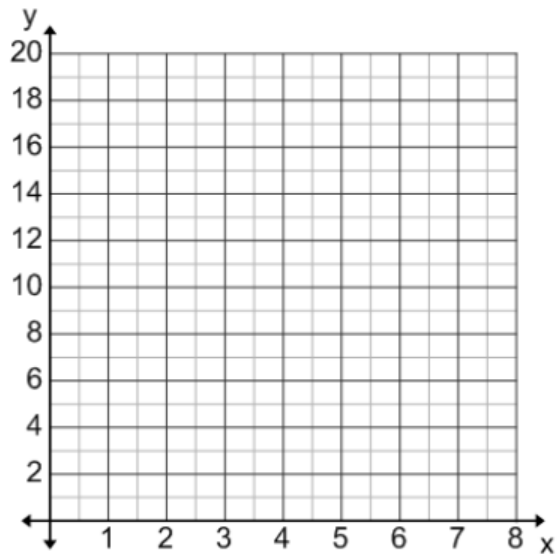

d) Graph this partial variation relation.

Ex. 2 a) Copy and complete the table of values given that y varies partially with x.

x	y
0	10
1	12
2	
	16
4	
	20

b) Identify the initial value of y and the constant of variation (i.e. slope!).

c) Write the equation in the form of $y = mx + b$.

d) Graph the relation.

e) Describe the graph

Summarizing Partial Variation:

	Looks Like...	Example
Equation		
Graph		

Understanding the Difference - Examples

<u>Partial</u>   <u>Neither</u>   <u>Direct</u>

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