

Name: _____

Period: _____ Date: _____

Using Tables to Make Predictions

1. Cost to Prepare Pizzas

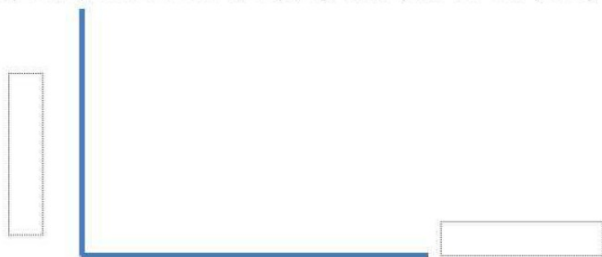
Pizza Prepared		1	2	3	4			
Cost		\$12.00	\$15.00	\$18.00	\$21.00			

Alfy has a pizza stand. Based on the table, what would be the cost of preparing more pizzas?

- What would be the cost of preparing 5 pizzas?
- What would be the cost of preparing 7 pizzas?
- What did it cost to set-up the pizza stand? (cost of preparing 0 pizzas)
- Determine the rate of change of the **Cost** vs. **Number of Pizzas prepared**

$$\frac{\text{change in Cost}}{\text{change in Number of Pizzas}} = \underline{\hspace{2cm}}$$

- Write an equation to find the cost of preparing more pizzas.
- Using the equation found in part **e)** what would be the cost of preparing 20 pizzas?
- What would be the cost of preparing 50 pizzas?
- Draw a graph to represent the Cost of Preparing Pizzas (label the x and y axes)

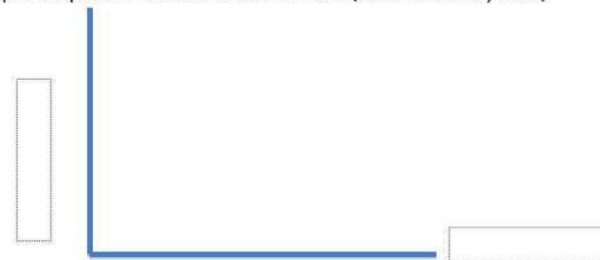


- What does the y -intercept tell you?

2. Cost of Cell Phone based on Minutes

Minutes Used				15	20	25	30	
Cost				\$30	\$34	\$38	\$42	

- How much would 45 minutes cost?
 - How much is the cost of having a cell phone *without* using any minutes?
 - Determine the rate of change of the **Cost** vs. **Minutes Used**
- $$\frac{\text{change in Cost of Cell Phone}}{\text{change in Minutes Used}} = \underline{\hspace{2cm}}$$
- Write an equation to find the cost of the cell phone for any number of given minutes.
 - Using the equation found in part **d)** how much would 115 minutes cost?
 - How much would 145 minutes cost?
 - Draw a graph to represent the Cost of a Cell Phone (label the x and y axes)



- What does the y -intercept tell you?

3. Amount of Water Available in a Tank

Day			2	3	4	5	
Water (gallons)			150	125	100	75	

If the amount of water in a tank continues to decrease at the rate shown in the chart.

- On which day will the tank have 25 gallons left?
- How much water did the tank start with before the tank began to drain?
- Determine the rate of change of the **Gallons of Water** vs. **Days**

$$\frac{\text{change in Gallons of Water}}{\text{change in Days}} = \underline{\hspace{2cm}}$$
- Write an equation to represent the gallons of water in the tank at any time.
- Using the equation found in part **d)** how many gallons will the tank contain on day 7?
- Draw a graph to represent the Water Available in the Tank (label the x and y axes)



- What does the x -intercept tell you?

4. Gas Remaining in Tank (based on miles)

Miles Driven		25	50	75	
Gas Remaining (in gallons)		18	16	14	

- How much gas is left after driving 125 miles?
- How much gas was in the tank before driving?
- Write an equation to represent the number of gallons of water in the tank.
- How much gas is left after driving 250 miles?
- Draw a graph to represent the Gas Remaining in the Tank (label the x and y axes)



- What does the x -intercept tell you?