

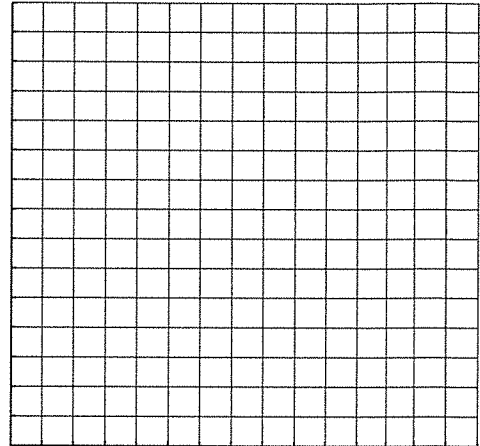
Mathematician _____ date _____ per _____

Review Real Life Scenarios

1. You learn 15 vocabulary words a week & have already learned 75. A) Write an equation for the total number of vocabulary words you will learn in x weeks.
- b) Interpret the slope, be specific to the situation.
- c) How many new vocabulary words do you learn after 13 weeks? (use your equation)
- c) How many weeks will it take you to learn 390 vocabulary words? (use your equation)
2. A cell phone plan costs \$10 per month plus \$0.10 for each text.
- a) Write an equation that represents the cost for **one** month.
- b) What is the slope? What is the y-intercept?
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- c) Last month your bill was \$84. How many texts did you send? (use your equation)
3. You are draining your fish aquarium. After 2 minutes, there are 6 gallons of water in the aquarium. After 10 minutes, the aquarium is empty.
- a) Write an equation that represents the volume y (in gallons) of water in the aquarium after x minutes.
- b) How much water started in the aquarium?
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4. Vivian charges \$4 for bracelets and \$5 for earrings. Her cost to make x bracelets and y earrings is \$60. a) Write an equation in Standard form to represent this situation.

b) Write the above equation into slope intercept form. Solve for y and graph the equation. Use numbers and labels.



5. Look at the graph in #4, give 2 possible solutions for spending \$60.

6. A hot tub that holds 500 gallons of water and drains at a rate of 10 gallons per minute. a) Write an equation that represents how many gallons are left in the tub after it has drained for x minutes.

b) After 16.5 minutes, how much water is left in the tub? (use your equation)

c) How long will it take the hot tub to be completely empty? (use your equation)