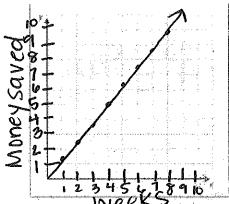
. Name: _	Key	Date:	Class:
	Framonorks	Slippery	slopes
· looks at	is \$450 per month p	nt an apartment after graduation olus a security deposit of \$500.	
• 1. Wh	nat is the rate of change?	What does it mean? $450 - p	er month
2. Wha	at is the y intercept? When the property of th	at does it mean? 500 Securit MS After zero months amount paid (y) for the number of months	y deposit -
+3	3 1850 4 6 3200	I thought the rate of change? Who was a standard of change? Who was a standard of change?	e show a constant y or why not?
5 Des	les, the rate of	n how you can tell from the table. f Change is constant of the data would look like. line with a positive slo her way home from school, Je	pe that crosses the n uses \$1 to buy a bag
of chip		\$-75, and she saves the remains	

change jar at home. She buys 5 bags of chips per week.

6. At this rate, how long will it take her to save \$10.00? Show your work. 5 bags per week & saves. 25 saves 1.25 per week (Slope)

7. Write the equation to show how much money (y) Jen will save after any number of weeks what each number and variable represents in this context.

8. Create a graph to represent this relationship.



To make the graph:

- 1. You could make a table of data and plot the points.
- 2. You could determine the y intercept and use slope to find a second point. Once you have two points, you can connect them to make your line.

MARK IS ALSO TRYING TO SAVE MONEY. HE ALREADY HAD \$3.00 SAVED AND PUTS \$1.00 PER WEEK AWAY IN HIS PIGGY BANK. THIS CAN BE REPRESENTED BY THE EQUATION Y = X+3.

- 9. Will Jen or Mark save \$20.00 first? Justify your reasoning.

 Ven will have 20 in Howeeks.

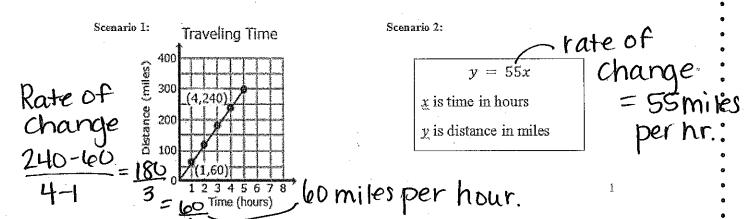
 H would take Mark 17 weeks 7 17=x

 (Weeks)

 1.25 1.25
- 10. Imagine you have made a graph to represent the money Mark has saved. Explain why Mark's line does not start at the origin and Jen's line does start at the origin.

Mark had already Saved \$ 3 at week zero 50 the Yintercept 15 3 (0,3). Jen had no extra /Starting amount Saved, So the y-intercept is zero.

Answer the questions below based on the two given scenarios. Each scenario shows the distance traveled from home



11. Which scenario represents a greater speed? Explain your choice.

Scenario 1 because the slope/rate of change is 60/1.

12. How far would each person have traveled after 3 hours? Explain. Scenario 1:60 miles per hour = 180 miles in 3 hrs. Scenario 2:55 miles per hour = 165 miles in 3 hrs.