Day 22: Linear Functions and SI	оре
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Situation	Complete Table	Write an Equation	Graph
Bailey babysits for the Wilson family. She charges \$5 just to drive there to pay for gas, and then she charges \$9 per hour.	x y 0 1 1 2 3 4 5 20 21.5 x	Define the variables: x: y: Equation:	
Make up a situation:	x y 0 1 1 2 3 3 4 5 20 21.5 x 1	Define the variables: x: y: Equation: y = -2x + 14	



Make a list of all the ways you have learned to identify/calculate slope:

HOW TO CALCULATE SLOPE

Slope is also called

Situation	Situation/Pattern				
You decide to go to the pumpkin patch this weekend with your family. Pumpkins cost \$0.99 per lb, and it costs \$3 to enter the pumpkin patch.	Figure 1	Figure 2	Figure 3		



Example: $\underline{x} \underline{y}$ 2 -10 6 -4 10 a 14 8 14 14 14 13 -1 13 -1 13 -3 16 -5 19 -7 22 -9 25		Table						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Example:	x	Y			You Try:	x	¥
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		2	-10				-1	13
10 a 14 8 18 14		6	-4				-3	16
14 8 18 14		10	а				-5	19
18 14 -9 25		14	8				-7	22
10 14 5 25		18	14				-9	25
22 20 -11 28		22	20				-11	28

Two Points			
FORMULA:	Example: (-1, 2) and (3, 5)		

Day 22 continued: Practice (Calculating Slope #22

Find the slope in each situation or pattern:

 Jordan is mowing lawns each week for \$30 per lawn. They already have \$350 saved up. 	2. Emiko is tying knots in a rope and re-measuring its length after each knot. She started with a length of 140 cm, and it decreases by 3.5 each knot.	3 	4. * X X X
Slope :	Slope:	Slope :	

Calculate the slope from each graph:





Slope: _____

12.	x	У
	-1	9
	-3	5
	-5	1
	-7	-3

Slope: _____

Calculate the slope from two points:

13. (1, 4) and (3, -2) 14. (-3, -1) and (-2, 1) 15. (-6, 3) and (5, -2)

For #1 and #2 on the previous page, describe in a sentence what the slope represents.

#1:

#2:

3. What does slope tell you about a graph?

4. What does slope tell you about a table?

5. Do you know any vocabulary that describes when graphs have the same slope?