## **Instructions**

REQUIRED: Complete all the problems we didn't get to. SUGGESTED: Redo the problems we did get to! When you're done, you can check your answers at lischwe.weebly.com!



<u>GRAPHING Y = MX + B</u>



## WHAT DOES IT MEAN???

<u>\$100</u>		<u>\$200</u>	<u>\$300</u>		
Patricia's parents kept track of her height		The Brown family just got a new	Rick and Carl are going on a road trip. The graph shows the distance <u>remaining</u> after x hours. Write an equation in slope-intercept form. Then say what the slope represents in		
from year to year. If you made a graph of		puppy. If x is the age of the dog in			
this data, should you connect the points?		years, then the weight (in pounds) of			
Why or why not?		the dog y can be modeled by the			
Age in years(x)	Height in inches (y)	equation $y = 2x + 5$ . What is the slope,	terms of the situation.		
5	38	and what does it represent in terms of	320 9		
6	40	the situation? What is the y-intercept,	£280 5240		
7	42	the situation?	2200		
8	44		≦160 120		
9	46		80		
			$\frac{40}{-1}$ $\frac{1}{1}$ $\frac{2}{1}$ $\frac{1}{1}$ $\frac{3}{1}$ $\frac{1}{1}$ $\frac{4}{5}$ $\frac{5}{6}$		

## RATE OF CHANGE

<u>\$100</u>			<u>\$200</u>	<u>\$300</u>			
Is this a constant rate of change?		ate of change?	Melinda is reading a book. At 2:05,	Joey bought a plant. "x" is the number of			
Show your work.			she is on page 143. At 2:23, she is	weeks since Joey bought it and "y" is the			
x	У		on page 152. If she keeps reading	plant's	height	in inches. Assume the plant	
0	4		at this pace, what page will she be	grows	at a con	stant rate. How fast is the	
2	20		on at 2:37?	plant g	rowing,	and how tall was the plant	
-	-			when h	ne boug	ht it?	
4	36			x	y		
8	60			2	8		
9	68			5	12.5		
				8	17		
				11	21.5		
				14	26		

## COMPARE THE LINES

<u>\$100</u>	<u>\$200</u>						<u>\$300</u>
Phil has \$200 already and begins a new job where he earns \$12 per hour. The amount of money Jill has after working x hours is represented by the equation y = 15x + 100. Who will have more	John and Paul each had a big math assignment to do. The number of problems John had left after "x" minutes is represented by the equation $y = -4x + 50$ . The number of problems Paul has left is given in the table. Who was					Tree A was 25 feet tall 5 years after it was planted. It was 29 feet tall 6 years after it was planted. Tree B was 32 feet tall 5 years after it was planted, and 38 feet tall 6 years after	
	working faster?						
money after working a 40 hour	# of minutes	0	2	5	7	11	it was planted. Which tree was <u>taller</u>
week?	# problems left	60	54	45	39	27	taller was it?