Name: _	Key		Date:		0 0 0 0 0	Class:
Wish Sha Line	Dull	ing it	all	toge	ther	
learned v	out this unit, you haways to move back ways to move back was blem pulls some of t	and forth between	n tables, gra	odel linear r phs, and eq	elationships. Y uations to solv	ou have also e problems. The
put her l wants to save each	Chantal's birthday. to birthday money in a sook how much the how week. As usual, chanswer for herself.	safe place and add ir grandfathen gav	part of her ve her and ho	allowance to w much of b r directly. I	it each week. I her allowance sh instead, she wa	Her sister, Chanico e is planning to
	er five weeks, I will h		,		to save each h	
<u> </u>	er eight weeks, I will	1. 1		\$ 15 (\$15	per weel per 3 n	reeks)
. How n	nuch birthday money	did Chantal's gran	dfather give	her? \$19	50	
3. Write	an equation for the nation do the y-inter	total amount of	money, A, Cha resent in th	intal will hav is context?	ve saved after	n weeks. What
	m is taking a bik 5 per week for t	Re repair class.	•			ays the bike
_	e an equation tl amount of mone					e in weeks and $y = 120-15$
2. Afte	er three weeks, h	now much doe	<u>s</u> Malcolm			
3. Hov	v many weeks w	7	colm to co	mpletely	pay off the	bike repair

1. Without graphing, describe what the graph of this relationship would look like. Is it increasing or decreasing? Where does the line cross the y-axis?

Decreasing (-15 perweek) & Chosses y-axis at 120

Esmeralda need to rent a moving truck in a few weeks, and she is looking at two different companies to decide which will give her the best deal. Company 1 charges \$5 per mile, plus mandatory insurance for \$20. Company 2's charges are represented in the table below.

Miles (x)	10 ·	15	20	25
Cost (y)	85 ,	120	155·	190

 Who charges more per mile (in other words, who has a greater rate of change)? How do you know?

Company 2 \$7/mile versus \$5/mile

2. Who charges more for insurance (in other words, who has a greater y-intercept)? How do you know?

Company 1 (20 versus \$12)

3. If Esmeralda knows she will only be driving the moving truck 25 miles, which company offers a better deal?

Company (y = 5x + 20) Company 2 y = 5(15) + 20 (\$120) y = 95

Ky'Anna wants to rent a bike to ride one Saturday. It costs \$12 per hour to rent the bike, plus there is a \$20 cleaning fee added on to the total cost. Answer the following questions based on this situation.

1. What is the independent variable in this situation? What is the dependent variable?

X (hours)

(Y) Cost \$

2. Create a table that models the total cost of renting a bike for 2 hours, 4 hours, 5 hours, and 8 hours.

and 8 hours.

2 \$44
4 \$68
5 \$80
8 \$114

3. Write the equation in slope-intercept form that represents the scenario above.

Y=\$12X+20

4. Using your equation, determine how much it would cost to rent a bike for 9 hours. $\gamma = 12(9) + 20$