

Name _____ Date _____ Class _____

- Jeremy earns \$14 per hour babysitting his little cousins
- Barbara earns \$7 per hour babysitting her neighbor's children, but is given an extra \$20 bonus just for arriving to work

1) Complete each table for Jeremy and Barbara. Be sure to fill in the labels for each row.

Jeremy

	0	1	2	3	4	5

Barbara

	0	1	2	3	4	5

2) What is Jeremy's rate of pay? _____ Barbara's? _____

3) If you were to write an equation (rule) to calculate pay for any numbers of hours worked by Jeremy, and one for Barbara as well, you could use the same variables, which variables would you choose, and what would each represent?

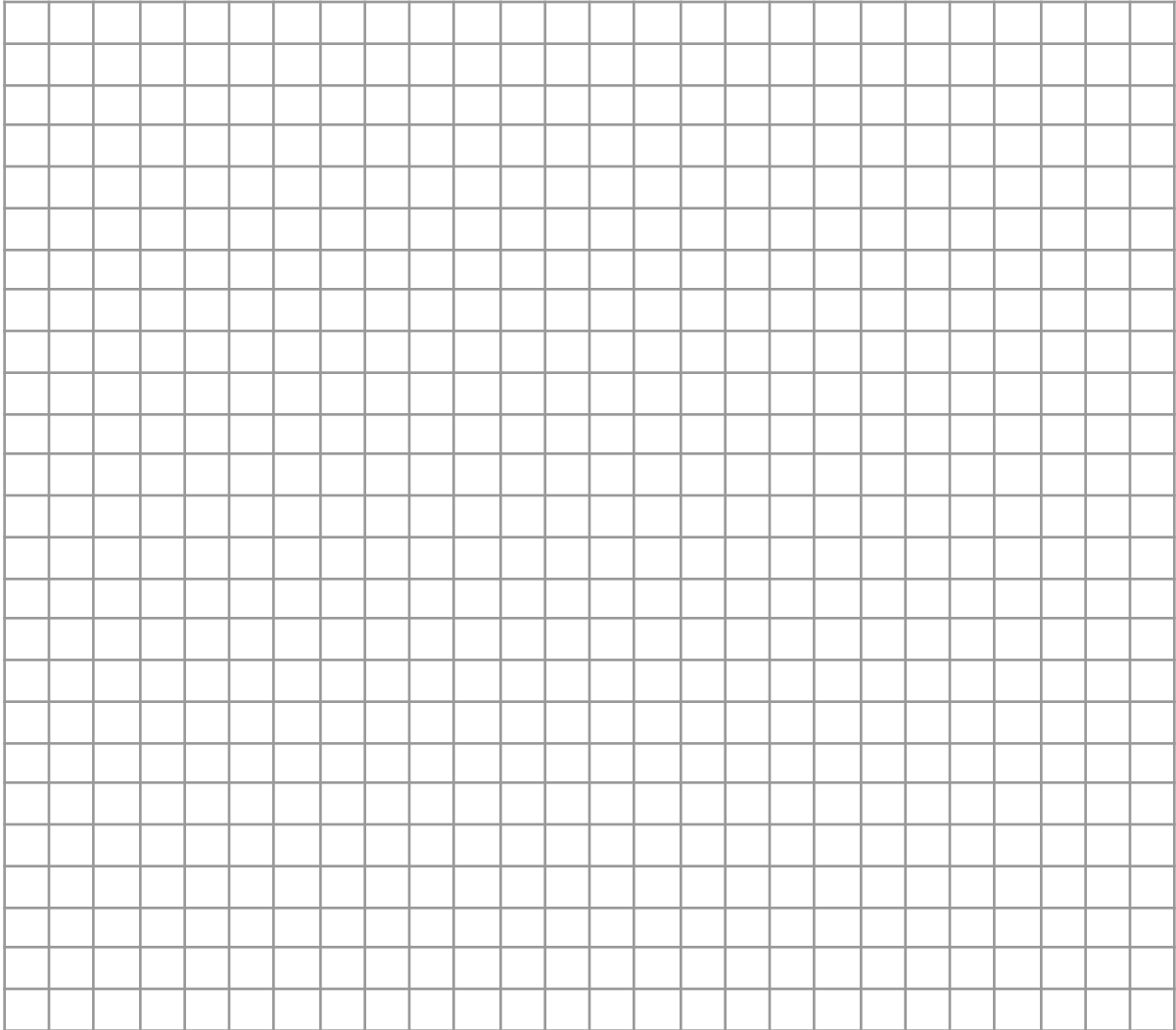
4) Write an equation (rule) to solve for pay for any number of hours worked by each:

Jeremy _____ Barbara _____

5) If Jeremy works twice as many hours this weekend as he does next weekend, will he earn twice as much pay? Explain.

6) If Barbara works twice as many hours this weekend as she does next weekend, will she earn twice as much pay? Explain.

7) Make a graph of both Jeremy's and Barbara's data and label each line with the equation and person's name. Be sure to plan out your graph and make the best use of the entire grid space. Remember, your x and y axes do not have to have the same interval spacing as each other. Remember to create a title and label each axis and the origin.



8) How much with each have earned after working 6.5 hours?

Jeremy _____ Barbara _____

9) How long will it take for each to earn \$100.00?

Jeremy _____ Barbara _____

10) After how many hours will Jeremy and Barbara have earned the same pay?
How do you know this from looking at the graph?