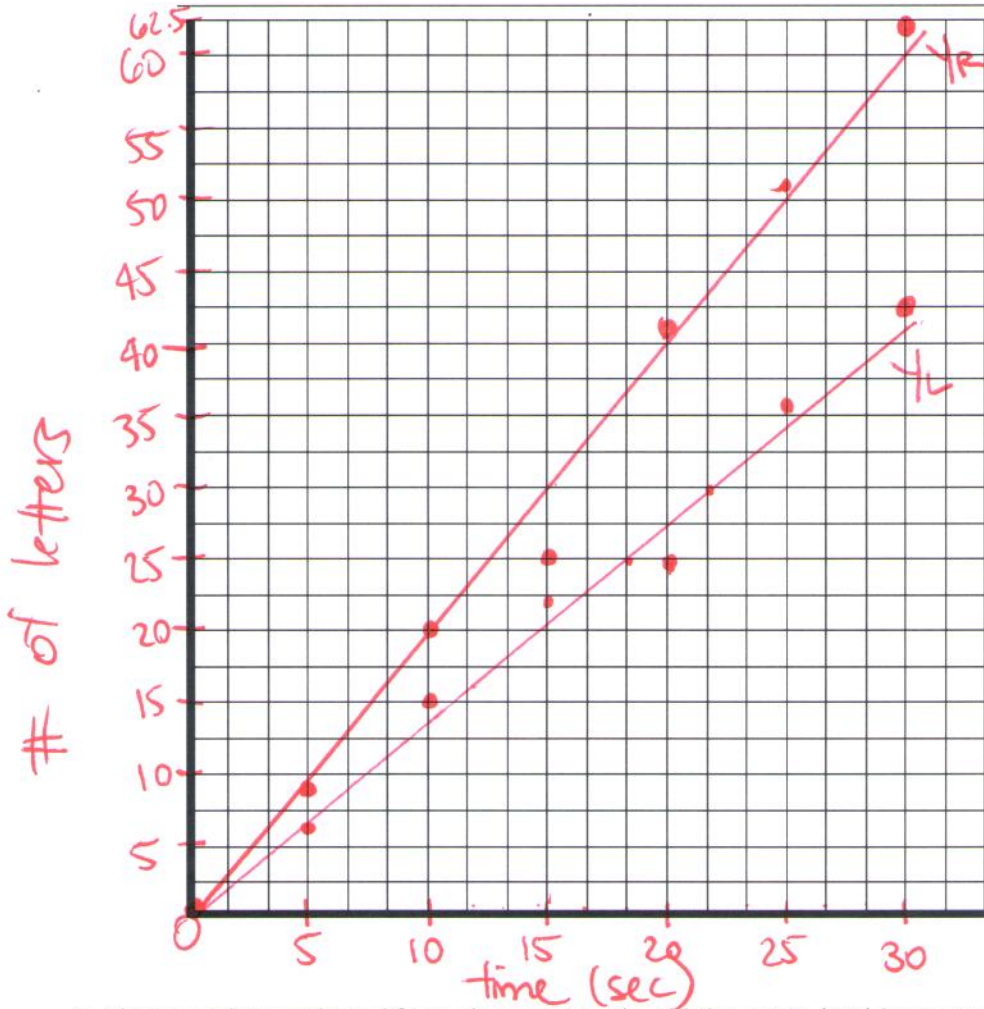


SOLN

Name:

Date:

Right Handed vs Left Handed Data



1. Plot your data gathered from the activity. Should the origin (0,0) be part of the graph? Why or why not?

Yes, because in 0 seconds I can write 0 letters

2. What is the independent variable in this problem? (var. along the x-axis) time

3. What is the dependent variable? (var. along the y-axis) # of letters

The dependent var., # of letters, depends on the independent var., time

4. Draw lines of best fit (regression lines) for both the right-handed and left-handed data. ✓

5. Write equations for both regression lines in slope-intercept form.

$$Y_R = \frac{20}{10}x + 0 \Rightarrow Y_R = 2x$$

$$Y_L = \frac{30}{21.5}x + 0$$

6. Predict how many letters per minute you can write with each hand. (Use the equation to derive your answer.)

$$\frac{120}{84}$$

$$Y_R = 2(60) = 120$$

$$Y_L = \frac{30}{21.5}(60) = 83.7$$

(sec, #)

Data Table

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total				
5	A	U	A	U	A	U	A	U	A																						(5, 9)				
10	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U														(10, 20)			
15	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U		(15, 30)			
20	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U	A	U		(20, 42)			
25																																			
30																																			
5																																			
10																																			
15																																			
20																																			
25																																			
30																																			

switch hands