

Name: \_\_\_\_\_

## "The Wave Experiment – Part II"

Please answer in complete sentences.

1. In decimal form, what is the line of best fit? You can use the chart in Excel to get this information. \_\_\_\_\_
2. What is the slope of this line?
3. What does the slope represent?

Use this equation to answer the following questions.

4. How long would it take for 50 students to make the wave? Show all work!
5. How long would it take 550 students to make the wave? Show all work!
6. How long would it take a stadium filled with 60,000 people to complete the wave?
7. Does the answer you got for question 6 seem reasonable? Why or why not? Explain using complete sentences.
8. What factors could cause the experiment we performed to not work in a stadium?