Experiment 1

The Wave

Name _____

Interpret the Data

Write the decimal form of your equation here. $y =$ _____ $x +$ _____

Use this equation to answer Questions 1 through 5. Show your work.

1. How long would it take 40 students to make a wave? _____

2. How many students are needed for a 25-second wave? _____

3. Was your answer to Question 2 a whole number? _____

   Does a non-whole number make sense for this answer? _____

4. How many students must get up and sit down for a 3-minute wave? _____

5. With a group of 33 students, how long would it take to make a complete wave? _____

Name _____

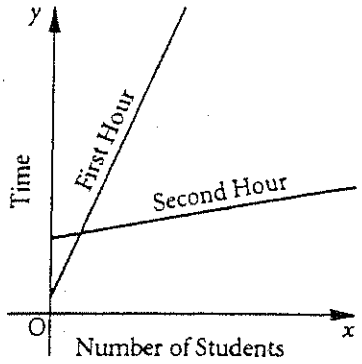
Interpret the Data, page 2

6. How would your graph be different if every student stood up and turned around twice before sitting down?

_____

_____

First- and second-hour classes did the Wave experiment. The graphs are recorded here.



7. Give a possible explanation of why the slopes are different.

_____

_____

8. Give a possible explanation of why the *y*-intercepts are different.

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