

NAME DATE PERIOD

Unit 6, Lesson 11: Gone In 30 Seconds

Let's gather and analyze some timing data.

11.1: Measuring 30 Seconds

In this activity, you'll get two chances to guess at how long 30 seconds is, then look for an association between the two guesses of all students.

- 1. Work with a partner. Follow the instructions listed here to gather your data.
 - One of you will hold a stopwatch where the other person cannot see it.
 - The person holding the stopwatch says "go" and starts the timer.
 - The other person says "stop" when they think 30 seconds have passed.
 - The person holding the stopwatch will stop the timer, then report and record the time to the nearest second.
 - The person holding the stopwatch will give a second chance, repeating the experiment.
 - After both times are recorded, switch roles.
- 2. Record the group data in this table. When you finish, a group member should give the data to the teacher.

name	time 1	time 2	

3. Look at your data. Comparing Time 1 to Time 2, do you think there is a positive association, a negative association, or no association? Discuss your thinking with your group.



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4. What are some ways you could organize and represent the entire class's data?



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> 5. Make a scatter plot of the entire class's data and look for patterns. Identify any outliers and the type of any association you observe.

6. Draw two lines on your scatter plot: a vertical line and a horizontal line, each representing 30 seconds for one trial. Use the table for the class's data to complete this two-way table.

	Time 2 < 30 sec	Time 2 = 30 sec	Time 2 > 30 sec	total
Time 1 < 30 sec				
Time 1 = 30 sec				
Time 1 > 30 sec				
total				

7. Use the two-way table to decide whether there is an association between Time 1 and Time 2. Explain how you know.