

# Valentine Hearts Investigation

## How similar and different are boxes of valentine heart candy?



In this investigation, we will study boxes of valentine heart candy to find out if this product is predictable. By examining boxes of candy, can you make reliable predictions about an unopened box of the same brand? Let's find out! Record data for one box of candy and compare the results with your classmates' data.

### Part 1 - Box Weight

1. How much does your box weigh in grams? Prediction \_\_\_\_\_ Actual \_\_\_\_\_
2. On another piece of paper or using a computer, create a chart or graph of your class results. Calculate and record the range, mode, median, and mean of the class data.

Range \_\_\_\_\_ Mode \_\_\_\_\_ Median \_\_\_\_\_ Mean \_\_\_\_\_

3. Predict the weight of an unopened box of candy hearts. \_\_\_\_\_
4. Explain your prediction using the data you collected.

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### Part 2 - Total Candies

1. How many candies are in your box? Prediction \_\_\_\_\_ Actual \_\_\_\_\_
2. On another piece of paper or using a computer, create a chart or graph of your class results. Calculate and record the range, mode, median, and mean of the class data.

Range \_\_\_\_\_ Mode \_\_\_\_\_ Median \_\_\_\_\_ Mean \_\_\_\_\_

3. Predict the total number of candy hearts in an unopened box. \_\_\_\_\_

4. Explain your prediction using the data you collected.

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### **Part 3 - Color Variations**

1. Do all boxes of candy have the same number of each color? Make a tally chart of the number of candies in your own box and then create a graph of your results.

2. Which type of graph did you choose to create? Why was this type of graph a good choice? Explain.

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3. Compare your data with your classmates' data. Which color occurs most frequently in the entire data set? What patterns do you notice?

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