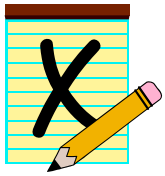
X Marks the Spot



PART 1

1. Using your right hand, mark X's in the boxes on your cm grid paper. The teacher will tell you when to start and stop.

Prediction for the number of X's with right hand _____

Number of X's marked with the right hand _____

2. Using the class data, complete the table below.

RIGHT-HANDED DATA	
Mean	
Median	
Mode	
Lower Extreme	
Upper Extreme	
Range	
Lower Quartile	
Upper Quartile	
Interquartile Range	

3. Using your left hand, mark X's in the boxes on your cm grid paper. The teacher will tell you when to start and stop.

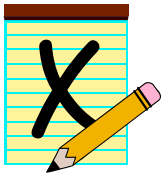
Prediction for the number of X's with left land _____

Number of X's marked with left hand _____

4. Using the class data, complete the table below.

LEFT-HANDED DATA	
Mean	
Median	
Mode	
Lower Extreme	
Upper Extreme	
Range	
Lower Quartile	
Upper Quartile	
Interquartile Range	

X Marks the Spot



PART 2
Using the two sets of data, create a back-to-back stem and leaf plot or a stacked box and whisker plot on graph paper.

Analyze your data by completing the following:

1. Which set of data has the greater median? How can you tell this by looking at your display of data?

2. Which set of data has the greater mean? Why do you think this set has the greater mean?

3. Which set of data has the greater range? Do outliers affect the range?

4. Analyze the data by describing the shape (clusters, peaks, symmetry) and variability (maximums, minimums, and outliers).

5. Interpret the data and be ready to discuss your findings.

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