Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class:\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_

**Learning Target**: I can organize and represent data using tables, dot plots, line plots, bar graphs, histograms and box plots.

**Do Now**

**Directions:** Answer the following question using the box plot.



Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class:\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_

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**Video Notes:**

What is the x-axis in a histogram? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In a histogram the intervals are always of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ size.

What is the y-axis in a histogram? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What does the height of a bar in a histogram represent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The bars in a histogram will always \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Follow up questions:**

What is difference between the bars in a bar graph and a histogram? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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When is it appropriate to have a gap between bars on a histogram? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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A **histogram** is a type of graph that shows data in the form of a picture.

**Data** is facts and statistics collected to analyze or reference. When data is collected, no matter what type of data that is, it's most often put into a graph so we can visually see what the numbers are saying.

A histogram is very similar to a bar graph. The main difference between the two is that a **bar graph** has a single value that names each bar, and a histogram has a **range** of numbers that name each bar.

Example:



What is measures can we determine from a histogram? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How is a histogram different from a box plot? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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