

Name: \_\_\_\_\_

Block: \_\_\_\_\_

## Statistical Measures

<b>Mean</b>	The sum of data divided by the number of values in the data set
$(10.77 + 5.71 + 6.78 + 5.65 + 8.58 + 5.71) \div 6 = 7.20$	
<b>Median</b>	The middle data value of a set
5.65    5.71 <b>5.71</b> <b>6.78</b> 8.58    10.77	
$(5.71 + 6.78) \div 2 = 6.245$	
<b>Mode</b>	The data value that occurs most frequently
5.65 <b>5.71</b> <b>5.71</b> 6.78    8.58    10.77	
Mode = <b>5.71</b>	
<b>Range</b>	The difference between the greatest value and the least value
<b>5.65</b> 5.71    5.71    6.78    8.58 <b>10.77</b>	
$10.77 - 5.65 = 5.12$	

**Objective:** Students will be able to summarize a set of data using a measure of center, such as the mean, median, or mode, or a measure of variability, such as the range.



*Anna Stephan, 2019 Jr. Iditarod Champion [photo credit: Brian Hickox]*

The following table shows musher Anna Stephan’s race speeds during the 2019 Jr. Iditarod Race. Use the data to answer the questions that follow.

2019 Jr. Iditarod Checkpoints	Speed (mph)
Knik Lake to Su River	11.76
Su River to Eagle Song	6.16
Eagle Song to Yentna Station	7.50
Yentna Station to Eagle Song	8.16
Eagle Song to Old Hunter Trail	9.69
Old Hunter Trail to Willow Community Center	9.56

1. The table shows Anna's race speeds between checkpoints throughout the 2019 Jr. Iditarod. Find the mean of Anna's speeds.

a. **First**, find the sum of the speeds.

sum = \_\_\_\_\_

b. **Next**, **DIVIDE** the sum by the number of values in the data set.

\_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_.

c. The mean of Anna's speeds during the 2019 Jr. Iditarod Race is \_\_\_\_\_.



[photo credit: Brian Hickox]

2. The table shows Anna's race speeds between checkpoints throughout the 2019 Jr. Iditarod.

a. Find the median of the data. List the data in order from least to greatest.

median = \_\_\_\_\_

b. Find the mode of the data.

mode = \_\_\_\_\_

c. Find the range of the data.

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_



*[Photo Credit: Brian Hickox]*

Use the [2019 Jr. Iditarod Race statistics](#) to complete the following section. Select one of the following Jr. Iditarod mushers:

- [Anna Coke](#)
- [Grace Hill](#)
- [Ida Kohnert](#)
- [Cassidy Meyer](#)
- [Bjorn Keller](#)
- [Johanna Badalich](#)

Record his/her race speeds between the various checkpoints from the 2019 Jr. Iditarod on the table below.

Musher's Name: _____	
2019 Jr. Iditarod Checkpoints	Speed (mph)
Knik Lake to Su River	
Su River to Eagle Song	
Eagle Song to Yentna Station	
Yentna Station to Eagle Song	
Eagle Song to Old Hunter Trail	
Old Hunter Trail to Willow Community Center	

Now, find the **mean**, **median**, **mode**, and **range** for your data set.

\*Record your answers on a separate sheet of paper. Make sure you show all of your work.

