* Each dot represents a number in the data set.
* Center is the ***middle*** number. It is also known as the ***median***. List the numbers in order from ***least*** to ***greatest***.
* Spread is the ***range***. It is found by ***largest number*** – ***smallest number***.

**Examples**

1. **The dot plots show the number of miles run per week for two different classes. Use the dot plots below to answer a – d.**



1. Compare the centers of the dot plots.

Class A:

Class B:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Compare the spreads of the dot plots.

Class A:

Class B:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Calculate the medians of the dot plots.

Class A:

Class B:

1. Calculate the ranges of the dot plots.

Class A:

Class B:

2. **The dot plot shows the numbers of letters in the spellings of the 12 months. Use the dot plot to answer a – c.**

 **0 2 4 6 8 10 12 14**

1. Describe the center of the dot plot: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Describe the spread of the dot plot: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Calculate the mean of the dot plot: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. **The dot plots shows the number of pies contestant #1 – 10 ate. Use the dot plot to answer a – k.**



1. How many pies did contestant 5 eat? \_\_\_\_\_\_
2. Did contestant 2 or contestant 3 eat more pies? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Did contestant 6 or contestant 4 eat fewer pies? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. How many contestants ate more than 3 pies? \_\_\_\_\_\_
5. How many contestants ate fewer than 8 pies? \_\_\_\_\_\_
6. What is the combined amount of pies that contestant 9 and contestant 8 ate? \_\_\_\_\_\_
7. What contestant ate the most pies? \_\_\_\_\_\_
8. Which contestant ate the fewest pies? \_\_\_\_\_\_
9. Which contestants (if any) ate more than 8 pies? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. What is the difference in the number of pies contestant 3 ate and the number contestant 2 ate? \_\_\_\_\_\_
11. Which contestant ate exactly 11 pies? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_