

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

Date: \_\_\_\_\_

## Balancing Point

The **balancing point** of a dataset is the point on a number line where the data distribution is balanced.

1. Use the instructions below to find the **balancing point** of the following set of numbers:  
**2, 3, 6, 8, 9, 11.**

Instructions:

**Step 1:** Drag a token and place it above each of the numbers in the set (2, 3, 5, 6, 9)

**Step 2:** Make sure "Find Mean" is selected.

**Step 3:** Click and drag the yellow triangle (fulcrum) until the green line is balanced (horizontal).

**Step 4:** Click on "Show Calculation" to have the computer calculate the mean.

**What do you notice?**

**Introduction to Data Science**  
Mean, Median, and Mode

Step 1: Drag tokens below:

Step 1: Place the tokens

Array : 2,3,5,6,9

☐ Show Result

Step 2: Choose a Study:

☒ Find Mean ☐ Find Median ☐ Find Mode

Step 3: Move Balance Point:

Step 2: Select Mean

Step 3: Drag the fulcrum until the line balances

Step 4: Click here

Step 4: Show Calculation

Not Balanced

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### **Balancing Point**

2. Answer the following questions:

a. Use the balancing method to find the mean of each dataset below:

i. 2, 2, 8, 9, 9

ii. 1, 3, 4, 7, 8, 10

iii. 4, 5, 5, 9, 11, 11

b. Suppose a line with several tokens is balanced. What happens when you move some of the tokens to the right? To the left? Explain how this affects the mean.

c. What does the balancing point of a dataset represent? Explain.