

Essential Question: How do we find the mean absolute deviation?

Questions /Main Ideas	Class Notes
<p>What is the mean absolute deviation?</p> <p>How do you find the mean absolute deviation?</p>	<p>The mean absolute deviation is an average of how much data differs from the mean.</p> <ol style="list-style-type: none"> 1. Find the mean of the data 2. Find the distance between each data value and the mean. 3. Find the sum of these distances. 4. Divide the sum by the total number of values
<p>Example</p>	<p style="text-align: center;">1, 2, 2, 2, 4, 4, 4, 5</p> $\text{Mean} = \frac{1 + 2 + 2 + 2 + 4 + 4 + 4 + 5}{8} = \frac{24}{8} = 3$ <p>The sum of the distances is $2 + 1 + 1 + 1 + 1 + 1 + 1 + 2 = 10$.</p> <p>The mean absolute deviation is $\frac{10}{8} = 1.25$.</p>

Summary

We use mean absolute deviation to measure how “spread out” a set of data is. Are they tightly bunched together or all spread out?