

# Measures Of Center Worksheet Answer Key

Name \_\_\_\_\_ Date \_\_\_\_\_

**Measures of Center and Variability - Independent Practice Worksheet**

Complete all the problems.

1) The heights (in cm) of 8 students of a class are as follows:  
155, 160, 145, 149, 150, 147, 152, 144, 148  
Find the median of this data.


2) Find the mode and range of the following quiz scores (out of 10) obtained by 10 students.  
4, 6, 5, 9, 3, 2, 7, 7, 1, 8


3) The following number of goals were scored by a team in a series of 10 matches.  
2, 3, 4, 5, 0, 1, 3, 3, 4, 3  
Find the mean and median of these scores.

4) On a mathematics test given to 15 students, the following scores (out of 100) were recorded:  
41, 39, 45, 52, 46, 62, 54, 40, 96, 52, 98, 40, 42, 52, 69.  
Find the mean, median and mode of this data.

5) Find the mode of 14, 25, 14, 28, 18, 17, 18, 14, 23, 22, 14, 18.

6) Find the median of the following values:  
37, 31, 42, 43, 46, 25, 39, 45, 32



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## Measures of Center Worksheet Answer Key

Understanding the measures of center is fundamental in statistics, as these measures provide a summary of a data set by identifying the central point around which the data clusters. Common measures of center include the mean, median, and mode. Educators often create worksheets for students to practice calculating these measures, and for teachers, an answer key is essential for grading and providing feedback. This article will explore the significance of these measures, how to calculate them, and provide examples that would typically be found in a measures of center worksheet along with an answer key.

## What are Measures of Center?

Measures of center are statistical values that indicate the center point of a data set. They help in understanding the general behavior of the data. The three most common measures of center are:

## 1. Mean

The mean, often referred to as the average, is calculated by summing all the data points and dividing by the number of points.

Formula:

$$\text{Mean} = \frac{\sum \text{(data points)}}{n}$$

Where  $n$  is the number of data points.

## 2. Median

The median is the middle value of a data set when it is arranged in ascending or descending order. If the data set has an odd number of observations, the median is the middle number. If it has an even number, the median is the average of the two middle numbers.

Steps to find the Median:

1. Sort the data in ascending order.
2. If the number of observations ( $n$ ) is odd, the median is the value at position  $((n + 1) / 2)$ .
3. If  $n$  is even, the median is the average of the values at positions  $(n / 2)$  and  $((n / 2) + 1)$ .

## 3. Mode

The mode is the value that occurs most frequently in a data set. A data set may have one mode, more than one mode (bimodal or multimodal), or no mode at all.

Finding the Mode:

1. Count the frequency of each data point.
2. Identify the data point(s) with the highest frequency.

# Importance of Measures of Center

The measures of center play a critical role in data analysis:

- Summarization: They provide a quick summary of the data set.
- Comparison: They allow for comparisons between different data sets.
- Decision Making: They help in making informed decisions based on statistical analysis.
- Data Interpretation: They assist in interpreting the spread and distribution of the data.

## Typical Measures of Center Worksheet Examples

To illustrate how students can practice these concepts, consider the following example data sets that may appear in a measures of center worksheet:

Example Data Set 1:

[ 3, 7, 8, 5, 12, 7, 9 ]

Example Data Set 2:

[ 15, 22, 15, 30, 45 ]

Example Data Set 3:

[ 1, 2, 2, 3, 4, 5, 6, 6, 6, 7 ]

For each data set, students would be asked to calculate the mean, median, and mode.

## Measures of Center Worksheet Answer Key

Below is the answer key for the example data sets mentioned above.

### Example Data Set 1: 3, 7, 8, 5, 12, 7, 9

- Mean:

$$\text{Mean} = \frac{3 + 7 + 8 + 5 + 12 + 7 + 9}{7} = \frac{51}{7} \approx 7.29$$

- Median:

- Sorted Data: 3, 5, 7, 7, 8, 9, 12

- Middle value (4th position): 7

- Mode:

- Most frequent value: 7

Results:

- Mean: 7.29

- Median: 7

- Mode: 7

### Example Data Set 2: 15, 22, 15, 30, 45

- Mean:

$$\text{Mean} = \frac{15 + 22 + 15 + 30 + 45}{5} = \frac{127}{5} = 25.4$$

- Median:

- Sorted Data: 15, 15, 22, 30, 45

- Middle value (3rd position): 22

- Mode:
- Most frequent value: 15

Results:

- Mean: 25.4
- Median: 22
- Mode: 15

### Example Data Set 3: 1, 2, 2, 3, 4, 5, 6, 6, 6, 7

- Mean:

$$\text{Mean} = \frac{1 + 2 + 2 + 3 + 4 + 5 + 6 + 6 + 6 + 7}{10} = \frac{42}{10} = 4.2$$

- Median:

- Sorted Data: 1, 2, 2, 3, 4, 5, 6, 6, 6, 7
- Average of 5th and 6th values:  $\frac{(4 + 5)}{2} = 4.5$

- Mode:

- Most frequent value: 6

Results:

- Mean: 4.2
- Median: 4.5
- Mode: 6

## Conclusion

The measures of center—mean, median, and mode—are foundational concepts in statistics that help

summarize and interpret data. Worksheets that focus on these measures provide valuable practice for students, and having an answer key is essential for effective learning and assessment. By mastering these concepts, students gain critical skills that will serve them well in both academic and real-world contexts. Understanding how to calculate and interpret these measures enables better analysis of data, which is increasingly important in today's data-driven world.

## **Frequently Asked Questions**

### **What are measures of center in statistics?**

Measures of center are statistical values that describe the center point or typical value of a dataset, commonly including the mean, median, and mode.

### **How do you calculate the mean of a dataset?**

To calculate the mean, sum all the numbers in the dataset and then divide by the total number of values.

### **What is the difference between the mean and median?**

The mean is the average of all values, while the median is the middle value when the data is arranged in ascending order.

### **What is the mode and how is it determined?**

The mode is the value that appears most frequently in a dataset. It can be determined by counting the occurrences of each value.

### **Why is it important to understand measures of center?**

Understanding measures of center helps summarize data and provides insights into the distribution and trends within the dataset.

## What is a worksheet answer key for measures of center?

A worksheet answer key for measures of center provides correct answers and solutions for problems related to calculating the mean, median, and mode.

## How can I check my answers on a measures of center worksheet?

You can check your answers by comparing them with the provided answer key, ensuring your calculations match the correct values.

## What types of problems are typically found on a measures of center worksheet?

Problems may include calculating the mean, median, and mode for given datasets, as well as word problems that require interpretation of these measures.

## Where can I find worksheets for practicing measures of center?

Worksheets for practicing measures of center can be found online on educational websites, math resource platforms, and in textbooks.

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