



mean	median	mode	range

12. 8, 11, 2, 4, 3, 2, 11

MathVine - Pre-Algebra

Name \_\_\_\_\_

Mean Median Mode Range

Date \_\_\_\_\_ Period \_\_\_\_\_

**Find the mean, median, mode and range of each dataset. Round to the nearest tenth.**

1. 7, 12, 12, 8, 5, 8

2. 9, 5, 6, 7, 10

3. 11, 6, 11, 5, 2, 6, 10, 2

4. 9, 12, 6, 2, 2, 6, 8

5. 3, 7, 9, 2, 5, 3, 5, 4

6. 10, 3, 12, 9, 6

7. 3, 8, 11, 12, 4, 9

8. 3, 8, 4, 4, 6

9. 6, 5, 8, 2, 3

mean	median	mode	range
8.7	8	12	7
7.4	7	9	5
6.6	6	11	9
6.4	6	6	10
4.8	4.5	3	7
8	9	10	9
7.8	8.5	3	9
5	4	4	5
4.8	5	6	6

	mean	median	mode	range
10. 12, 7, 10, 4, 6, 3	7	6.5	12	9
11. 7, 7, 11, 7, 8, 10, 4, 8, 11	8.1	8	7	7
12. 8, 11, 2, 4, 3, 2, 11	5.9	4	11	9

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Name \_\_\_\_\_

Mean Median Mode Range

Date \_\_\_\_\_ Period \_\_\_\_\_

### Solution Steps

$$1) 7, 12, 12, 8, 5, 8$$

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

5, 7, 8, 8, 12 and 12

To find the mean, first add all the numbers together:

$$7 + 12 + 12 + 8 + 5 + 8 = 52$$

There are six numbers in the list 7, 12, 12, 8, 5 and 8 so we divide by six:

$$\frac{52}{6} = 8.67$$

The mean of the set is 8.67

To find the median in this situation, take the average (mean) of 8 and 8

$$\frac{8 + 8}{2} = 8$$

The median of the set is 8

The number that appears most often are 8 and 12. Since there is a tie, we say that the list has 2 modes: 8 and 12

Now it is easier to see that the smallest number in the list is 5 and the largest number is 12

To find the range, subtract 5 from 12:

$$12 - 5 = 7$$

The range of the set is 7

<sup>2)</sup> 9, 5, 6, 7, 10

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

5, 6, 7, 9 and 10

To find the mean, first add all the numbers together:

$$9 + 5 + 6 + 7 + 10 = 37$$

There are five numbers in the list 9, 5, 6, 7 and 10 so we divide by five:

$$\frac{37}{5} = 7.4$$

The mean of the set is 7.4

We can see that 7 is in the middle of the list. There are two numbers less than 7, and two numbers greater than 7.

The median of this set is 7

The number that appears most often are 5, 6, 7, 9 and 10. Since there is a tie, we say that the list has 5 modes: 5, 6, 7, 9 and 10

Now it is easier to see that the smallest number in the list is 5 and the largest number is 10

To find the range, subtract 5 from 10:

$$10 - 5 = 5$$

The range of the set is 5

$$^3) 11, 6, 11, 5, 2, 6, 10, 2$$

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

2, 2, 5, 6, 6, 10, 11 and 11

To find the mean, first add all the numbers together:

$$11 + 6 + 11 + 5 + 2 + 6 + 10 + 2 = 53$$

There are eight numbers in the list 11, 6, 11, 5, 2, 6, 10 and 2 so we divide by eight:

$$\frac{53}{8} = 6.63$$

The mean of the set is 6.63

To find the median in this situation, take the average (mean) of 6 and 6

$$\frac{6 + 6}{2} = 6$$

The median of the set is 6

The number that appears most often are 2, 6 and 11. Since there is a tie, we say that the list has 3 modes: 2, 6 and 11

Now it is easier to see that the smallest number in the list is 2 and the largest number is 11

To find the range, subtract 2 from 11:

$$11 - 2 = 9$$

The range of the set is 9

<sup>4)</sup> 9, 12, 6, 2, 2, 6, 8

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

2, 2, 6, 6, 8, 9 and 12

To find the mean, first add all the numbers together:

$$9 + 12 + 6 + 2 + 2 + 6 + 8 = 45$$

There are seven numbers in the list 9, 12, 6, 2, 2, 6 and 8 so we divide by seven:

$$\frac{45}{7} = 6.43$$

The mean of the set is 6.43

We can see that 6 is in the middle of the list. There are three numbers less than 6, and three numbers greater than 6.

The median of this set is 6

The number that appears most often are 2 and 6. Since there is a tie, we say that the list has 2 modes: 2 and 6

Now it is easier to see that the smallest number in the list is 2 and the largest number is 12

To find the range, subtract 2 from 12:

$$12 - 2 = 10$$

The range of the set is 10

<sup>5)</sup> 3, 7, 9, 2, 5, 3, 5, 4

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

2, 3, 3, 4, 5, 5, 7 and 9

To find the mean, first add all the numbers together:

$$3 + 7 + 9 + 2 + 5 + 3 + 5 + 4 = 38$$

There are eight numbers in the list 3, 7, 9, 2, 5, 3, 5 and 4 so we divide by eight:

$$\frac{38}{8} = 4.75$$

The mean of the set is 4.75

To find the median in this situation, take the average (mean) of 4 and 5

$$\frac{4 + 5}{2} = 4.5$$

The median of the set is 4.5

The number that appears most often are 3 and 5. Since there is a tie, we say that the list has 2 modes: 3 and 5

Now it is easier to see that the smallest number in the list is 2 and the largest number is 9

To find the range, subtract 2 from 9:

$$9 - 2 = 7$$

The range of the set is 7

<sup>6)</sup> 10, 3, 12, 9, 6

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

3, 6, 9, 10 and 12

To find the mean, first add all the numbers together:

$$10 + 3 + 12 + 9 + 6 = 40$$

There are five numbers in the list 10, 3, 12, 9 and 6 so we divide by five:

$$\frac{40}{5} = 8$$

The mean of the set is 8

We can see that 9 is in the middle of the list. There are two numbers less than 9, and two numbers greater than 9.

The median of this set is 9

The number that appears most often are 3, 6, 9, 10 and 12. Since there is a tie, we say that the list has 5 modes: 3, 6, 9, 10 and 12

Now it is easier to see that the smallest number in the list is 3 and the largest number is 12

To find the range, subtract 3 from 12:

$$12 - 3 = 9$$

The range of the set is 9



<sup>7)</sup> 3, 8, 11, 12, 4, 9

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

3, 4, 8, 9, 11 and 12

To find the mean, first add all the numbers together:

$$3 + 8 + 11 + 12 + 4 + 9 = 47$$

There are six numbers in the list 3, 8, 11, 12, 4 and 9 so we divide by six:

$$\frac{47}{6} = 7.83$$

The mean of the set is 7.83

To find the median in this situation, take the average (mean) of 8 and 9

$$\frac{8 + 9}{2} = 8.5$$

The median of the set is 8.5

The number that appears most often are 3, 4, 8, 9, 11 and 12. Since there is a tie, we say that the list has 6 modes: 3, 4, 8, 9, 11 and 12

Now it is easier to see that the smallest number in the list is 3 and the largest number is 12

To find the range, subtract 3 from 12:

$$12 - 3 = 9$$

The range of the set is 9

$$8) \quad 3, 8, 4, 4, 6$$

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

3, 4, 4, 6 and 8

To find the mean, first add all the numbers together:

$$3 + 8 + 4 + 4 + 6 = 25$$

There are five numbers in the list 3, 8, 4, 4 and 6 so we divide by five:

$$\frac{25}{5} = 5$$

The mean of the set is 5

We can see that 4 is in the middle of the list. There are two numbers less than 4, and two numbers greater than 4.

The median of this set is 4

The number that appears most often is 4, so 4 is the mode of the set

Now it is easier to see that the smallest number in the list is 3 and the largest number is 8

To find the range, subtract 3 from 8:

$$8 - 3 = 5$$

The range of the set is 5

$$9) \quad 6, 5, 8, 2, 3$$

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

2, 3, 5, 6 and 8

To find the mean, first add all the numbers together:

$$6 + 5 + 8 + 2 + 3 = 24$$

There are five numbers in the list 6, 5, 8, 2 and 3 so we divide by five:

$$\frac{24}{5} = 4.8$$

The mean of the set is 4.8

We can see that 5 is in the middle of the list. There are two numbers less than 5, and two numbers greater than 5.

The median of this set is 5

The number that appears most often are 2, 3, 5, 6 and 8. Since there is a tie, we say that the list has 5 modes: 2, 3, 5, 6 and 8

Now it is easier to see that the smallest number in the list is 2 and the largest number is 8

To find the range, subtract 2 from 8:

$$8 - 2 = 6$$

The range of the set is 6

<sup>10)</sup> 12, 7, 10, 4, 6, 3

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

3, 4, 6, 7, 10 and 12

To find the mean, first add all the numbers together:

$$12 + 7 + 10 + 4 + 6 + 3 = 42$$

There are six numbers in the list 12, 7, 10, 4, 6 and 3 so we divide by six:

$$\frac{42}{6} = 7$$

The mean of the set is 7

To find the median in this situation, take the average (mean) of 6 and 7

$$\frac{6 + 7}{2} = 6.5$$

The median of the set is 6.5

The number that appears most often are 3, 4, 6, 7, 10 and 12. Since there is a tie, we say that the list has 6 modes: 3, 4, 6, 7, 10 and 12

Now it is easier to see that the smallest number in the list is 3 and the largest number is 12

To find the range, subtract 3 from 12:

$$12 - 3 = 9$$

The range of the set is 9

<sup>11)</sup> 7, 7, 11, 7, 8, 10, 4, 8, 11

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

4, 7, 7, 7, 8, 8, 10, 11 and 11

To find the mean, first add all the numbers together:

$$7 + 7 + 11 + 7 + 8 + 10 + 4 + 8 + 11 = 73$$

There are nine numbers in the list 7, 7, 11, 7, 8, 10, 4, 8 and 11 so we divide by nine:

$$\frac{73}{9} = 8.11$$

The mean of the set is 8.11

We can see that 8 is in the middle of the list. There are four numbers less than 8, and four numbers greater than 8.

The median of this set is 8

The number that appears most often is 7, so 7 is the mode of the set

Now it is easier to see that the smallest number in the list is 4 and the largest number is 11

To find the range, subtract 4 from 11:

$$11 - 4 = 7$$

The range of the set is 7

<sup>12)</sup> 8, 11, 2, 4, 3, 2, 11

Right now the numbers are out of order, so it is difficult to answer the question. So first put the numbers in order:

2, 2, 3, 4, 8, 11 and 11

To find the mean, first add all the numbers together:

$$8 + 11 + 2 + 4 + 3 + 2 + 11 = 41$$

There are seven numbers in the list 8, 11, 2, 4, 3, 2 and 11 so we divide by seven:

$$\frac{41}{7} = 5.86$$

The mean of the set is 5.86

We can see that 4 is in the middle of the list. There are three numbers less than 4, and three numbers greater than 4.

The median of this set is 4

The number that appears most often are 2 and 11. Since there is a tie, we say that the list has 2 modes: 2 and 11

Now it is easier to see that the smallest number in the list is 2 and the largest number is 11

To find the range, subtract 2 from 11:

$$11 - 2 = 9$$

The range of the set is 9