MasterMath

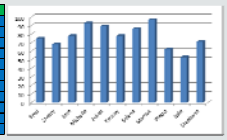
STATISTICS

Mean, Median, Mode and Range

AVERAGE

In mathematics, an average, or *central tendency* of a data set is a measure of the "middle" value of the data set. Average is a *Statistic*.

Student	Score
Fred	75
Sherry	68
Jose	78
Michelle	93
Julian	89
Keshav	78
Selena	86
Marcus	97
Pietro	62
Julie	53
Stephano	71



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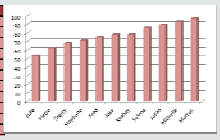

Mean:
Sum of the data set, divided by the number of data values.

1, 2, 2, 3, 4

1 + 2 + 2 + 3 + 4 = 12
12 ÷ 5 = 2.4

53 + 62 + 68 + 71 + 75 + 78 + 78 + 86 + 89 + 93 + 97 = 850

850 ÷ 11 = 77.3

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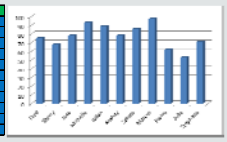

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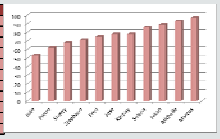

Median:
Order the data. For a set with an odd number of values, the **median** is the middle value. For a set with an even number of values, the **median** is the mean of the two middle values.

1, 2, 2, 3, 4 Median: 2

2, 2, 3, 4 Median: 2.5

Median: 78

Mean, Median, Mode and Range

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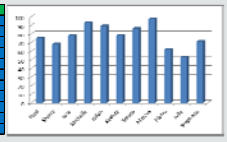
Jose	78
Michelle	93
Julian	89
Keshay	78
Selena	88
Marcus	97
Pietro	62
Julie	53
Stephano	71



Mode:

The **mode** of a data set is the value or values that occur most often. Data can have one mode, more than one mode, or no mode. When all values occur only once, there is no mode.

1, 2, 2, 3, 4 Mode: 2

1, 2, 3, 4 Mode: none

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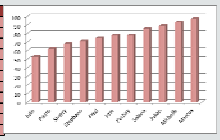
Pietro	62
Sherry	68
Stephano	71
Fred	75
Jose	78
Keshay	78
Selena	88
Julian	89
Michelle	93
Marcus	97



Mode: 78

Mean, Median, Mode and Range

AVERAGE

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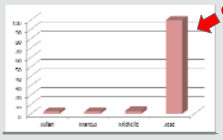
Sherry	68
Stephano	71
Fred	75
Jose	78
Keshay	78
Selena	88
Julian	89
Michelle	93
Marcus	97

Mean: 77.3
Median: 78
Mode: 78

Student	Score
Julie	1
Marcus	2
Michelle	3
Jose	100



Mean: 26.8
Median: 2.5
Mode: 2

Mean, Median, Mode and Range

RANGE

The *range* of a data set is the difference between the greatest value and the least value. The range describes how spread out the data are.

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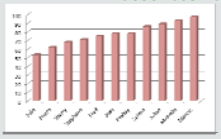
Sherry	68
Stephano	71
Fred	75
Jose	78
Keshay	78
Selena	88
Julian	89
Michelle	93
Marcus	97



Greatest Value: 97
Least Value: -53
Range: 44

Mean, Median, Mode and Range

You try it!

Find the mean, median, mode and range for this data set:
4, 2, 8, 6

2, 4, 6, 8

Mean: 2 + 4 + 6 + 8 = 20; 20 ÷ 4 = 5

Median: (4 + 6) ÷ 2 = 5

Mode: none

Range: 8 – 2 = 6

Mean, Median, Mode and Range

You try it!

Find the mean, median, mode and range:
12, 18, 8, 20

Mean, Median, Mode and Range

You try it!

Find the mean, median, mode and range:
12, 18, 8, 20

8, 12, 18, 20

Mean: 8 + 12 + 18 + 20 = 58; 58 ÷ 4 = 14.5

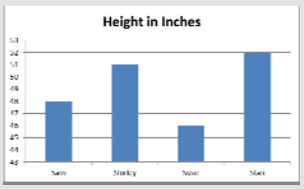
Median: (12 + 18) ÷ 2 = 15

Mode: none

Range: 20 – 8 = 12

Mean, Median, Mode and Range

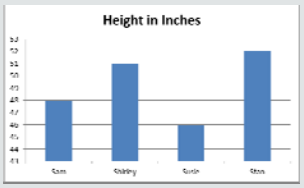
You try it!



What is the mean height?

Mean, Median, Mode and Range

You try it!



What is the mean height?

48 + 51 + 46 + 52 = 197
197 ÷ 4 = 49.25”

Mean, Median, Mode and Range

You try it!

Now, try it on your own. Go to
www.MasterMath.info
download
Mean, Median, Mode and Range
from the Worksheets Page, and test your skill.

Mean, Median, Mode and Range