

LESSON

Reteach

6-2 Mean, Median, Mode, and Range

You can find the mean, median, mode, and range to describe a set of data.

Terry's Test Scores	76	81	94	81	78
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The **mean** or average is the sum of the items divided by the number of items.

$76 + 81 + 94 + 81 + 78 = 410$ First, find the sum of the values.
 $410 \div 5 = 82$ Then divide the sum by the number of values in the set of data.

The mean is 82 points.

The **median** is the middle value of an ordered set of data. If there are two middle values, the median is the mean of those two values.

76, 78, **81**, 81, 94 Put the values in order first.
 The median is 81 points.

The **mode** is the value that occurs most often in a set of data.

The mode is 81 points.

The **range** is the difference between the greatest and least values in the set of data.

$94 - 76 = 18$ Use subtraction to find the range.
 The range is 18 points.

Find the mean, median, mode, and range of each set of values.

1. 23, 78, 45, 22

2. 102, 79, 82, 103, 79

3. 56, 99, 112, 112, 56

mean: _____

mean: _____

mean: _____

median: _____

median: _____

median: _____

mode: _____

mode: _____

mode: _____

range: _____

range: _____

range: _____

LESSON **Practice A**
6-2 Mean, Median, Mode, and Range

Find the mean of each data set.

1.

Length of Worms (in.)	3	5	4	2	6
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 mean: 4 in.

2.

Ages of Brothers (yr)	12	16	15	14	8
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 mean: 13 y

Find the mean, median, mode, and range of each data set.

3.

Heights of Trees (m)	7	11	9	7	6
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 mean: 8 m; median: 7 m; mode: 7 m; range: 5 m

4.

Sizes of Bottled Juice (L)	6	12	12	16	24
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 mean: 14 L; median: 12 L; mode: 12 L; range: 18 L

5.

Football Team Wins (games per season)	10	8	10	8	14
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 mean: 10 games; median: 10 games; mode: 8 and 10 games;
 range: 6 games

6. Tammy is 14 years old. She has a younger sister and an older brother. Her sister is 12 years old. The mean of all their ages is 14. How old is Tammy's brother?
 16 years old

7. The mode of Nevin's four math quiz scores last month is 85 points. On three of the quizzes, he earned the following scores: 90, 86, and 85. What was the score of Nevin's other quiz?
 85 points

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LESSON **Practice B**
6-2 Mean, Median, Mode, and Range

Find the mean of each data set.

1.

Brian's Math Test Scores	86	90	93	85	79	92
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 mean: 87.5

2.

Heights of Basketball Players (in.)	72	75	78	72	73
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 mean: 74 in.

Find the mean, median, mode, and range of each data set.

3.

School Sit-Up Records (sit-ups per minute)	31	28	30	31	30
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 mean: 30 sit-ups; median: 30 sit-ups; mode: 30 and 31 sit-ups;
 range: 3 sit-ups

4.

Team Heart Rates (beats per min)	70	68	70	72	68	66
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 mean: 69 bpm; median: 69 bpm; mode: 68 and 70 bpm; range: 6 bpm

5.

Daily Winter Temperatures (°F)	45	50	47	52	53	45	51
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 mean: 49°F; median: 50°F; mode: 45°F; range: 8°F

6. Anita has two sisters and three brothers. The mean of all their ages is 6 years. What will their mean age be 10 years from now? Twenty years from now?
 16 years; 26 years

7. In a class of 28 sixth graders, all but one of the students are 12 years old. Which two data measurements are the same for the student's ages? What are those measurements?
 the median and mode: 12 years

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LESSON **Practice C**
6-2 Mean, Median, Mode, and Range

Find the mean of the data set.

1.

Monthly Girl Scout Cookie Sales (boxes per person)									
22	13	47	11	8	16	15	14	13	17

 mean: 17.6 boxes

Find the mean, median, mode, and range of each data set.

2.

Monthly Rainfall (in.)	7.6	6.7	8.1	6.2	6.0	6.2
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 mean: 6.8 in.; median: 6.45 in.; mode: 6.2 in.; range: 2.1 in.

3.

Wildcat Basketball Season Wins (number of points won by)							
24	12	10	18	20	12	17	10

 mean: 15.375 pt; median: 14.5 pt; mode: 10 and 12 pt; range: 14 pt

4.

Tom's Weekly Earnings (\$)	200	167	185	212	195	193
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 mean: \$192; median: \$194; mode: none; range: \$45

5. There are seven whole numbers in a data set. The mean of the data set is 28. The median is 29, and the mode is 31. The least number in the data set is 22, and the greatest number is 35. What are the seven numbers in the data set?
 Possible answer: 22, 23, 25, 29, 31, 31, and 35

6. There are seven children in the Arthur family, including one set of twins. The youngest child is 6 years old, and the oldest is 16 years old. The mean of their ages is 11 years, the median is 10 years, and the mode is 15 years. What are the ages of the Arthur children? How old are the twins?
 6, 7, 8, 10, 15, 15, and 16 years; 15 years old

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1. 23, 78, 45, 22 2. 102, 79, 82, 103, 79 3. 56, 99, 112, 112, 56

mean: 42 mean: 89 mean: 87

median: 34 median: 82 median: 99

mode: no mode mode: 79 mode: 56, 112

range: 56 range: 24 range: 56

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