math Antics Worksheets

Name:

Date:

Finding the Mean (or Average) - Set 1

A-MMM 1

Instructions: Find the Mean (or Average) of each set of numbers below. (Note: the numbers are inside curley-brackets { } to show that they form a set.)

1 {2, 3, 7}

First add all the numbers. Then divide the total by how many numbers were added.

$$\begin{array}{r} 2 \\ 3 \\ +\ 7 \\ \hline 12 \end{array} \qquad 3\overline{)12} = 4 \quad (-12,\ 0)$$

2 {6, 1, 2}

$$\begin{array}{r} 6 \\ 1 \\ +\ 2 \\ \hline 9 \end{array} \qquad 3\overline{)9} = 3 \quad (-9,\ 0)$$

3 {8, 10}

$$\begin{array}{r} 10 \\ +\ 8 \\ \hline 18 \end{array} \qquad 2\overline{)18} = 9 \quad (-18,\ 0)$$

4 {2, 4, 6, 8}

$$\begin{array}{r} 2 \\ 4 \\ 6 \\ +\ 8 \\ \hline 20 \end{array} \qquad 4\overline{)20} = 5 \quad (-20,\ 0)$$

5 {5, 5, 8}

$$\begin{array}{r} 5 \\ 5 \\ +\ 8 \\ \hline 18 \end{array} \qquad 3\overline{)18} = 6 \quad (-18,\ 0)$$

6 {20, 12}

$$\begin{array}{r} 20 \\ +\ 12 \\ \hline 32 \end{array} \qquad 2\overline{)32} = 16 \quad (-32,\ 0)$$

7 {0, 1, 5, 10}

$$\begin{array}{r} 10 \\ 5 \\ 1 \\ +\ 0 \\ \hline 16 \end{array} \qquad 4\overline{)16} = 4 \quad (-16,\ 0)$$

8 {1, 1, 2, 3, 8}

$$\begin{array}{r} 8 \\ 3 \\ 2 \\ 1 \\ +\ 1 \\ \hline 15 \end{array} \qquad 5\overline{)15} = 3 \quad (-15,\ 0)$$

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Finding the Mean (or Average) - Set 2

A-MMM 2

Instructions: Find the Mean (or Average) of each set of numbers below. You can use a calculator to do the addition and division for these problems if you want to.

1 {5, 0, 4, 10}

10
5
4
+ 0
19

4.75
4)19

2 {1, 2}

2
+ 1
3

1.5
2)3

3 {15, 8, 19}

19
15
+ 8
42

14
3)42

4 {5, 7, 7, 10}

10
7
7
+ 5
29

7.25
4)29

5 {14, 15}

15
+ 14
29

14.5
2)29

6 {3, 12, 9, 16, 10}

16
12
10
9
+ 3
50

10
5)50

7 {9, 4, 11, 14}

14
11
9
+ 4
38

9.5
4)38

8 {2, 20}

20
+ 2
22

11
2)22

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Finding the Median - Set 1

A-MMM 3

Instructions: Find the Median of each set below. Remember, the members must be in order and if there's an even number of members, the Median is the Mean of the middle two members.

1 {5, 1, 0, 3, 8} odd

First make sure the set is in order.

{0, 1, (3), 5, 8}

Then choose the middle member.

2 {6, 2, 7, 1} even

First make sure the set is in order.

{1, [2, 6], 7}

The Median is the Mean of the middle two.

$\text{Median} = \frac{2+6}{2} = (4)$

3 {12, 9, 10}

{9, (10), 12}

Median

4 {6, 1, 10, 7, 4, 2}

{1, 2, [4, 6], 7, 10}

$\text{Median} = \frac{4+6}{2} = (5)$

5 {1, 2, 3, 4, 5, 6, 7}

{1, 2, 3, (4), 5, 6, 7}

Median

6 {1, 2, 3, 4, 5, 6}

{1, 2, [3, 4], 5, 6}

$\text{Median} = \frac{3+4}{2} = (3.5)$ or $3\frac{1}{2}$

7 {4, 0, 2, 0, 2, 1, 3}

{0, 0, 1, (2), 2, 3, 4}

Median

8 {0, 1, 2, 2, 5, 8}

{0, 1, [2, 2], 5, 8}

$\text{Median} = \frac{2+2}{2} = (2)$

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Name:

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Finding the Median - Set 2

A-MMM 4

Instructions: Find the Median of each set below. Remember, the members must be in order and if there's an even number of members, the Median is the Mean of the middle two members.

1 {7, 0, 2.5, 4, 15}

First make sure the set is in order.

{0, 2.5, 4, 7, 15}

Then choose the middle member.

2 {25, 22, 21, 23, 24}

{21, 22, 23, 24, 25}

Median

3 {30, 31}

{ 30, 31 }

$\text{Median} = \frac{30 + 31}{2} = 30.5$

4 {80, 20, 70, 30}

{20, 30, 70, 80}

$\text{Median} = \frac{30 + 70}{2} = 50$

5 {1, 1, 4, 5, 2, 1, 2, 3, 5}

{1, 1, 1, 2, 2, 3, 4, 5, 5}

Median

6 {20, 500, 100}

{20, 100, 500}

Median

7 {2.5, 1.5, 6.0, 1.1}

{1.1, 1.5, 2.5, 6.0}

$\text{Median} = \frac{1.5 + 2.5}{2} = 2$

8 {0, 1, 0}

{0, 0, 1}

Median

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Finding the Mode

A-MMM 5

Instructions: Find the Mode of each set below. Remember, there may not be a Mode, or there may be more than one Mode. (Note: You can re-order the sets to make finding the Mode easier.)

1 {5, 2, 1, 5, 7, 3, 4, 6}

{1, 2, 3, 4, 5, 5, 6, 7}

The Mode is 5 because it is repeated most often.

2 {8, 0, 0, 2, 4, 8, 10}

{0, 0, 2, 4, 8, 8, 10}

Both 0 and 8 are Modes

3 {5, 1, 2, 5, 1, 5, 5}

{1, 1, 2, 5, 5, 5, 5}

The Mode is 5

4 {15, 5, 30, 60, 25}

{5, 15, 25, 30, 60 }

No Mode

5 {0, 1, 5, 1, 8, 3, 3, 9}

{0, 1, 1, 3, 3, 5, 8, 9}

Both 1 and 3 are Modes

6 {0, 0, 1, 1, 2, 2, 3, 3}

No Mode

(Because the Mode is not just a repeated number. It's the number that's repeated most often.)

7 {12, 10, 15, 12, 18}

{10, 12, 12, 15, 18}

The Mode is 12

8 {7, 9, 7, 4, 4, 3, 3, 4}

{3, 3, 4, 4, 4, 7, 7, 9}

The Mode is 4

9 {1, 0, 1, 0, 1, 0}

{0, 0, 0, 1, 1, 1}

No Mode

10 {0, 1, 2, 3, 3, 3, 4, 4, 4}

{0, 1, 2, 3, 3, 3, 4, 4, 4}

Both 3 and 4 are Modes

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Mean, Median and Mode - Mixed Practice Set 1

A-MMM 6

Instructions: Try to remember which is which! :)

1 Find the Median of this set:

{4, 10, 19, 20, 30, 42, 50}

The Median is 20

2 Find the Mean of this set:

{20, 15, 30, 35}

20 + 15 + 30 + 35 = 100

100 ÷ 4 = 25

3 Find the Mode of this set:

{7, 8, 8, 9, 8, 9, 7, 6}

{ 6, 7, 7, 8, 8, 8, 9, 9}

The Mode is 8

4 Find the Mean of this set:

{100, 200}

100 + 200 = 300

300 ÷ 2 = 150

5 Find the Median of this set:

{5, 1.7, 22, 9, 30.5}

{ 1.7, 5, 9, 22, 30.5}

The Median is 9

6 Find the Mode of this set:

{6, 3, 4, 2, 8, 7, 5, 9, 2, 4}

{2, 2, 3, 4, 4, 5, 6, 7, 8, 9}

Both 2 and 4 are Modes

7 Find the Mean of this set:

{0, 0, 1, 5, 9, }

0 + 0 + 1 + 5 + 9 = 15

15 ÷ 5 = 3

8 Find the Median of this set:

{2, 4, 8, 10}

Median = $\frac{4 + 8}{2}$ = 6

9 Find the Mode of this set:

{12, 5, 7, 3, 0, 1, 9}

No Mode

10 Find the Mean of this set:

{1.5, 5.0, 2.5}

1.5 + 5.0 + 2.5 = 9

9 ÷ 3 = 3

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Mean, Median and Mode Word Problems

A-MMM 7

Instructions: Find the Mean, Median and Mode in each problem below. Please use a calculator for the computations.

1 A musician practiced piano for five days and recorded the time spent each day. Find the Mean, Median and Mode.

Practice Time (min.)				
30	15	30	20	45

Mean 28 min

30 + 15 + 30 + 20 + 45 = 140

$5\overline{)140}$ → 28

Median 30 min

15, 20, (30) 30, 45

Mode 30 min

2 During a seven day winter storm, snow fall levels were recorded in this table. Find the mean, median and Mode.

Snow Fall (in.)						
2.5	1.2	0.0	3.9	1.0	2.5	1.5

Mean 1.8 in.

2.5 + 1.2 + 0.0 + 3.9 + 1.0 + 2.5 + 1.5 = 12.6

$7\overline{)12.6}$ → 1.8

Median 1.5 in.

0.0, 1.0, 1.2, (1.5) 2.5, 2.5, 3.9

Mode 2.5 in

3 A Track and Field athlete was practicing Long Jump and recorded the following scores. Find the Mean, Median and Mode of the distances jumped.

Distances Jumped (m)					
7.10	6.85	7.25	7.35	6.90	6.85

Mean 7.05 m

7.10
6.85
7.25
7.35
6.90
+ 6.85
42.30

$6\overline{)42.3}$ → 7.05

Median 7.00 m

6.85, 6.85, [6.90, 7.10,] 7.25, 7.35

$\frac{6.90 + 7.10}{2} = 7.00$

Mode 6.85 m

4 A gamer bought four video games and listed their prices in the table below. Find the Mean, Median and Mode of the price list.

Price of Each Game			
$14.99	$1.99	$24.99	$5.99

Mean $11.99

24.99
14.99
5.99
+ 1.99
47.96

$4\overline{)47.96}$ → 11.99

Median $10.49

1.99, [5.99, 14.99] 24.99

$\frac{5.99 + 14.99}{2} = 10.49$

Mode none