- N	3	1111		0
	CI.		c	0



# Mean, Median and Mode

Fill in the blank.	2 Fill in the blank.
The median is the of an ordered data set.	The mean is another term for the value of a data set.
<b>3</b> Fill in the blanks. To calculate the mean, all the numbers in the data set and then the total by the number of members in the data set.	<ul> <li>True or False?</li> <li>If no values are repeated, then a data set doesn't have a mode.</li> <li>True False</li> </ul>
<b>5</b> Calculate the mean of this data set. { 8, 3, 5, 12 }	Find the median of this data set. { 0, 3, 4, 8, 10, 15, 20 }
7 Find the Mean, Median and Mode of this data set: {7, 2, 5, 8, 14, 8, 10, 2}	8 This table records how many miles Rob walked each weekday. Find the Mean, Median and Mode of this data set.          Day       Miles         Mon.       2.6         Tue.       0.0         Wed.       0.8         Thu.       2.1         Fri.       1.5
Mean Median Mode	Mean Median Mode

- N	3	1111		0
	CII.		c	0



Mean, Median and Mode

Fill in the blank. The median is the <u>middle</u> of an ordered data set.	Fill in the blank. The mean is another term for the average value of a data set.					
3 Fill in the blanks. To calculate the mean, <u>add</u> all the numbers in the data set and then <u>divide</u> the total by the number of members in the data set.	<ul> <li>True or False?</li> <li>If no values are repeated, then a data set doesn't have a mode.</li> <li>True False</li> </ul>					
5 Calculate the mean of this data set. { 8, 3, 5, 12 } add: 8 + 3 + 5 + 12 = 28 divide: 28 ÷ 4 = 7	<ul> <li>Find the median of this data set.</li> <li>{0, 3, 4, (8) 10, 15, 20}</li> <li>8 is the median because the set is in order and it's the middle member.</li> </ul>					
7 Find the Mean, Median and Mode of this data set: ${7, 2, 5, 8, 14, 8, 10, 2}$ Mean: $\begin{array}{c}3\\14\\10\\8\end{array}$ $\begin{array}{r}7\\6\\8\\-56\\7\\0\end{array}$ $\begin{array}{r}\\6\\8\\-56\\7\\-5\\2\\+2\\56\end{array}$ Since the set has an even number of members, the Median is the Mean of the middle two: Median: ${2, 2, 5, 7, 8, 8, 10, 14}$ $\begin{array}{r}7+8\\2=7.5\end{array}$ Mode: ${(2, 2), 5, 7, (8, 8), 10, 14}$	8 This table records how many miles Rob walked each weekday. Find the Mean, Median and Mode of this data set. $ \frac{Day Miles}{Mon. 2.6} \qquad Mean: \qquad 2 \\ 2.6 \\ 2.1 \\ 5)7.0 \\ 1.5 \\ -5 \\ 0.8 \\ 20 \\ + 0.0 \\ 7.0 \\ 0 $ Median: in order $0.0, 0.8, 1.5, 2.1, 2.6$ Mode: None of the values are repeated in this set, so there is no mode.					
Mean 7 Median 7.5 Mode 2 and 8	Mean <u>1.4</u> Median <u>1.5</u> Mode <u>none</u>					

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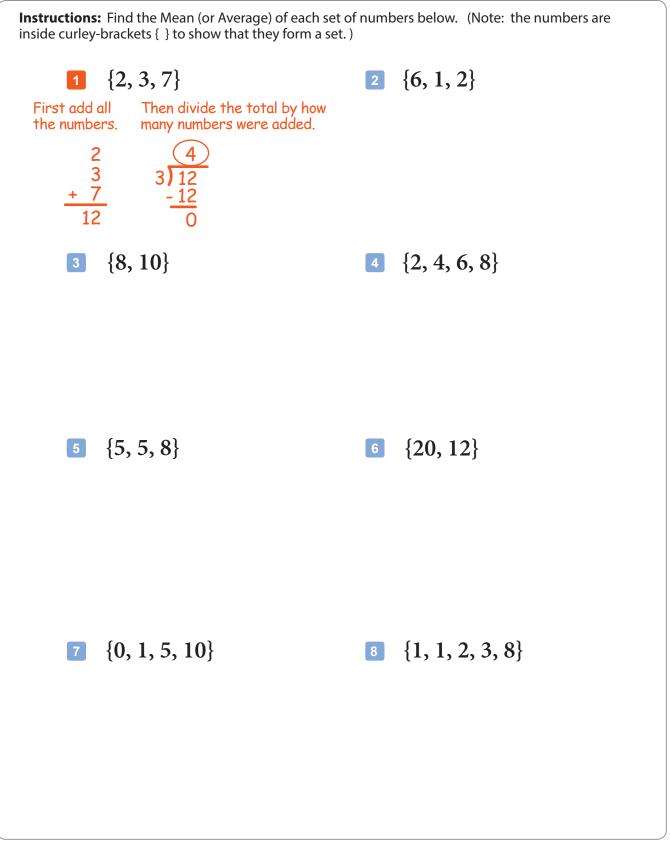
See Video for step-by-step solutions to each problem.



Date:

A-MMM 1

#### Finding the Mean (or Average) - Set 1

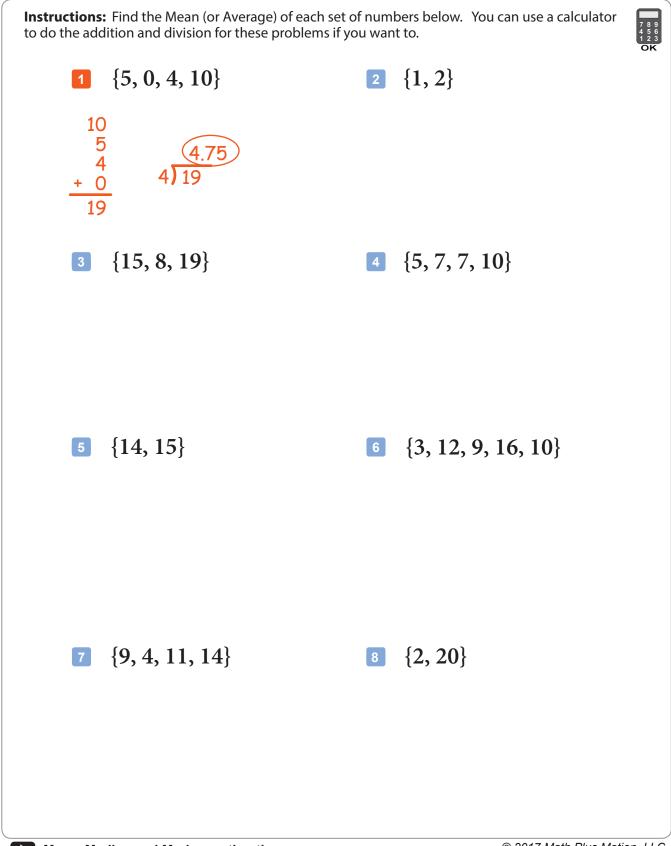




Date:

A-MMM 2

# Finding the Mean (or Average) - Set 2





Date:

A-MMM 3

# Finding the Median - Set 1

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.  $\{5, 1, 0, 3, 8\}$  odd [2] {6, 2, 7, 1} even 1 First make sure the set is in order. First make sure the set is in order.  $\{0, 1, (3), 5, 8\}$ {1, 2, 6, 7} The Median is the Mean of the middle two. Then choose the middle member. Median =  $\frac{2+6}{2}$  = (4)  $\{12, 9, 10\}$  $[4] \{6, 1, 10, 7, 4, 2\}$ 3 [1, 2, 3, 4, 5, 6, 7] $\begin{bmatrix} 1, 2, 3, 4, 5, 6 \end{bmatrix}$ 

**7** {4, 0, 2, 0, 2, 1, 3} **8** {0, 1, 2, 2, 5, 8}



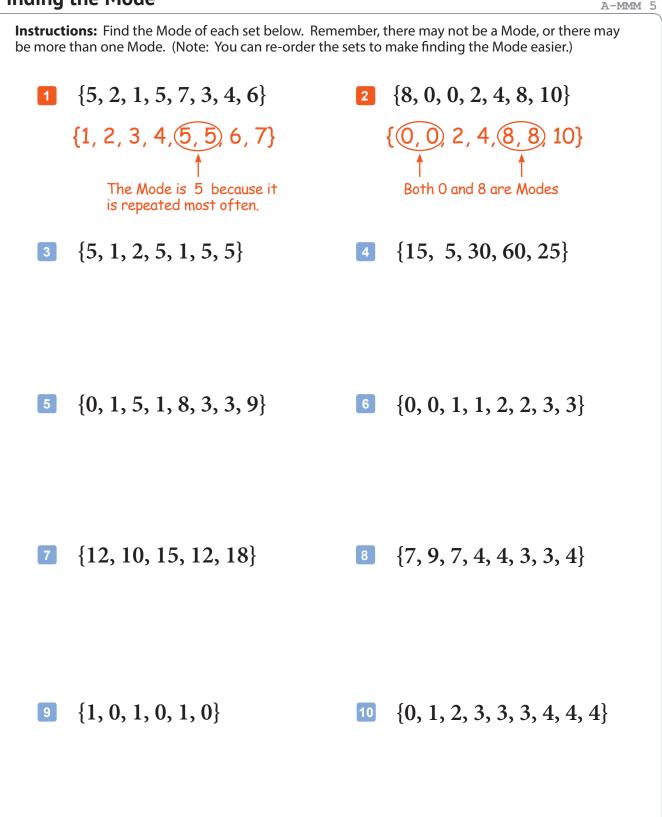
Date:

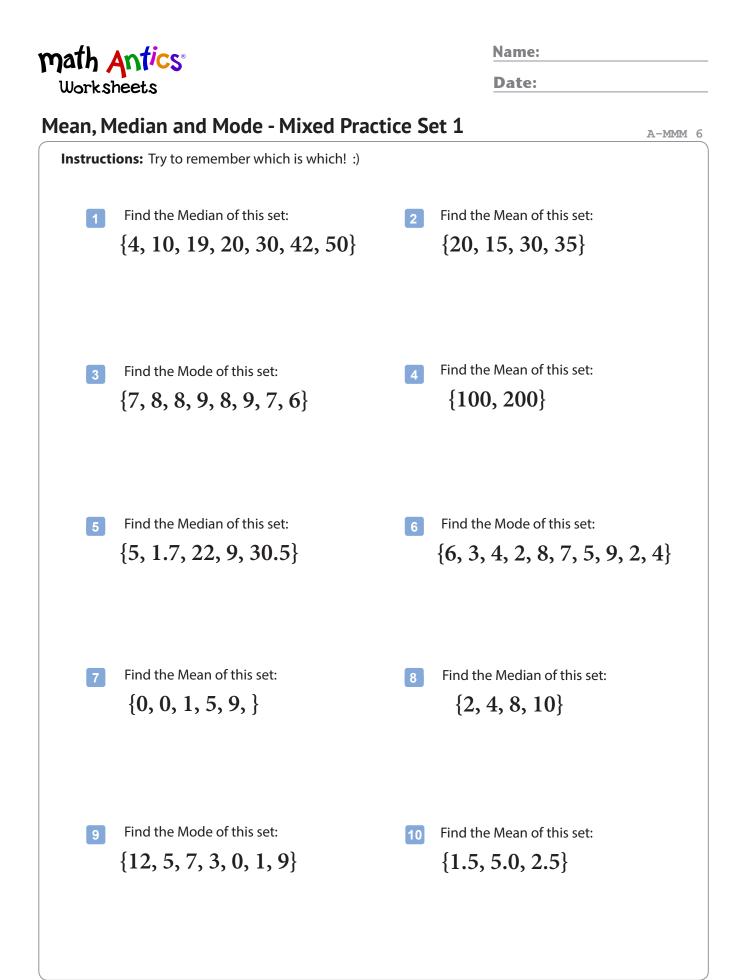
# Finding the Median - Set 2 A-MMM 4 Instructions: Find the Median of each set below. Remember, the members must be in order and if there's an even number of members, the Median is the Mean of the middle two members. $\{7, 0, 2.5, 4, 15\}$ [2] {25, 22, 21, 23, 24} 1 First make sure the set is in order. {0, 2.5, **4**, 7, 15} Then choose the middle member. **3** {30, 31} $[4] \{80, 20, 70, 30\}$ **5** $\{1, 1, 4, 5, 2, 1, 2, 3, 5\}$ **6** $\{20, 500, 100\}$ $\overline{2}$ {2.5, 1.5, 6.0, 1.1} **8** $\{0, 1, 0\}$



Ná	am	e:

#### **Finding the Mode**







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	CL		C	

A-MMM 7

# Mean, Median and Mode Word Problems

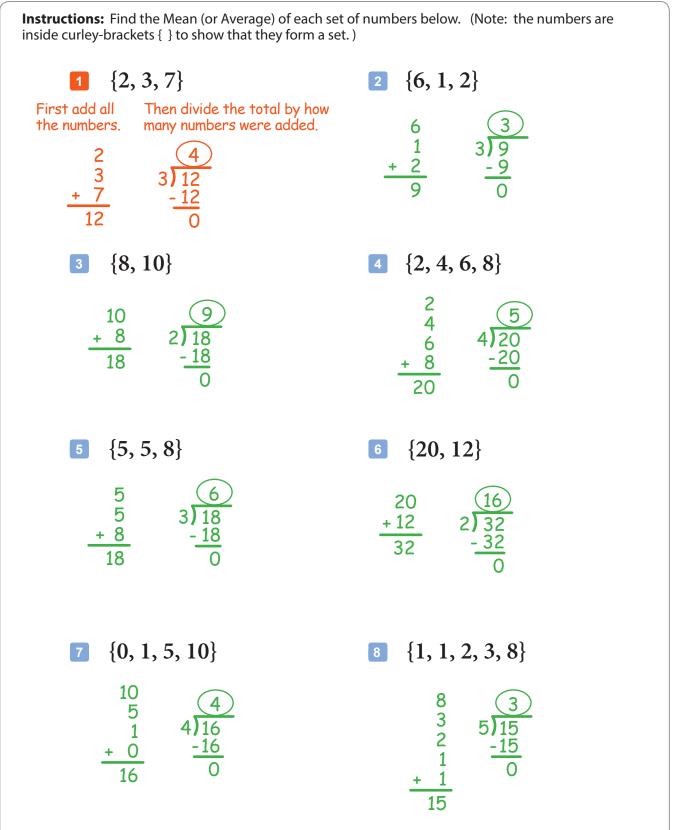
<b>Instructio</b> for the co			Mea	n, Med	ian an	d Mode	in each p	roblem	n belov	w. Plea	ase us	e a calo	culator	7 8 4 5 1 2 OK
and	1 A musician practiced piano for five days and recorded the time spent each day. Find the Mean, Median and Mode.				During a seven day winter storm, snow fall levels were recorded in this table. Find the mean, median and Mode.									
	F	Practic	e Tim	<mark>e (min</mark>	.)					Snow	Fall (	(in.)		
	30	15	30	20	45			2.5	1.2	0.0	3.9	1.0	2.5	1.5
Mean	l					-		Mean						
Media	an							Media	in					
Mode								Mode						
Long	g Jump	o and re nd the	ecord Mean		follow		4	listed	their p	orices i	n the	deo ga table b Aode o	elow.	Find
	Distances Jumped (m)				Price of Each Game									
7.1	0 6.8	5 7.2	25 7	.35 6	.90 6	5.85		\$14.	99	\$1.99	\$	24.99	\$5.9	99
Меа	n							Mean						
Med	ian							Media	n					
Mod	le							Mode						



Date:

A-MMM 1

#### Finding the Mean (or Average) - Set 1



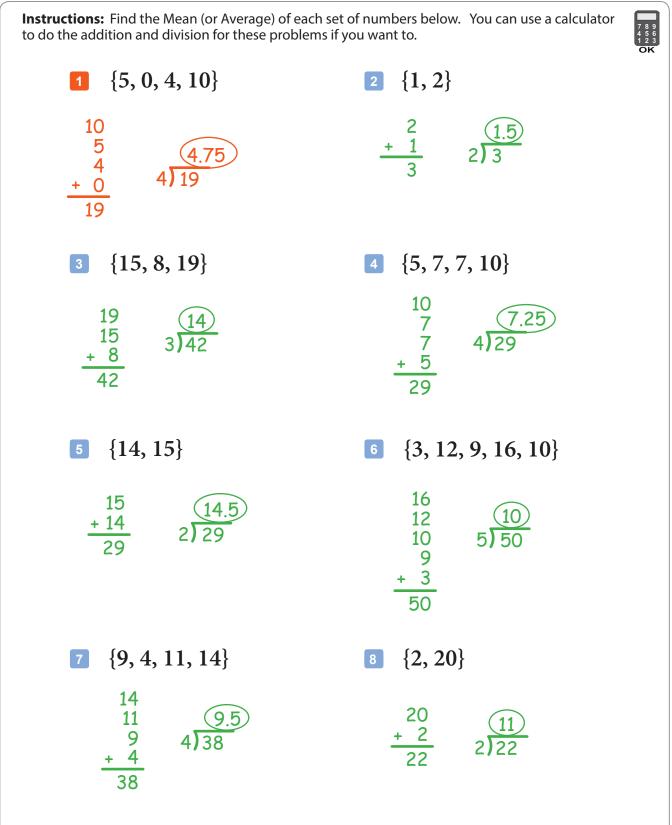
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Date:

A-MMM 2

# Finding the Mean (or Average) - Set 2





Date:

A-MMM 3

# Finding the Median - Set 1

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.  $\{5, 1, 0, 3, 8\}$  odd **2**  $\{6, 2, 7, 1\}$  even First make sure the set is in order. First make sure the set is in order.  $\{0, 1, (3), 5, 8\}$  $\{1, 2, 6, 7\}$ The Median is the Mean of the middle two. Then choose the middle member. Median =  $\frac{2+6}{2}$  = (4)  $\{12, 9, 10\}$  $\{6, 1, 10, 7, 4, 2\}$ 4 3  $\{1, 2, [4, 6], 7, 10\}$ {9,(10), 12}

Median

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

Median = 
$$\frac{4+6}{2} = (5)$$
  
 $\{1, 2, 3, 4, 5, 6\}$ 

{1, 2, 
$$3, 4$$
, 5, 6}  
Median =  $\frac{3+4}{2} = (3.5)$  or  $3\frac{1}{2}$ 

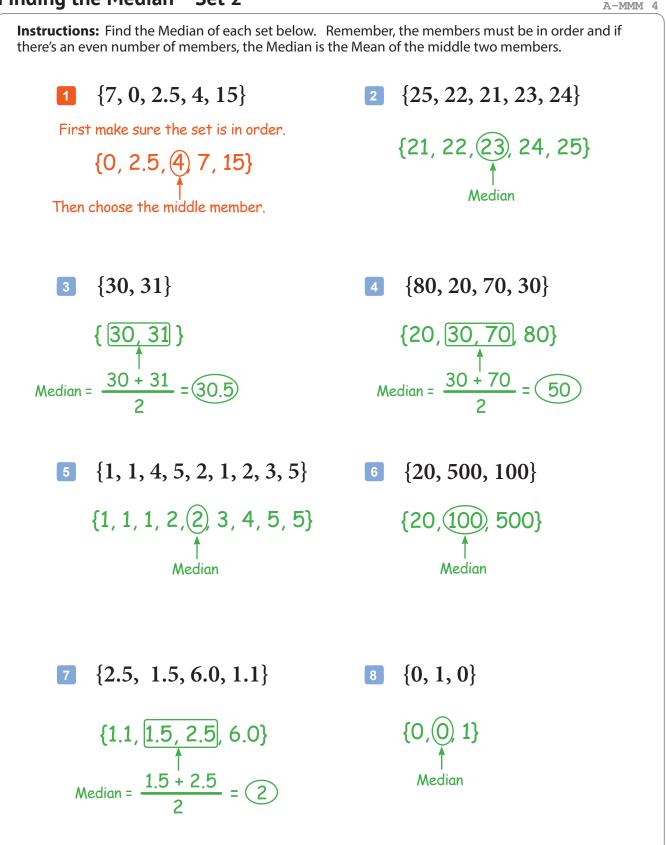
7 {4, 0, 2, 0, 2, 1, 3} {0, 0, 1, (2) 2, 3, 4} Median

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



Date:

# Finding the Median - Set 2



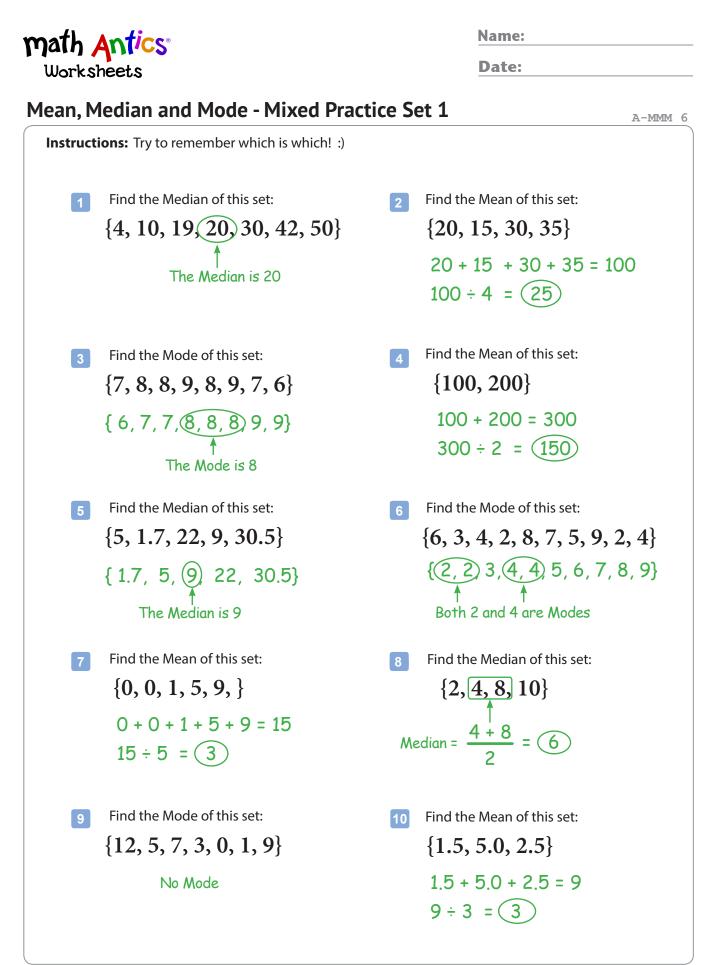


#### **Finding the Mode**

Name:

Date:

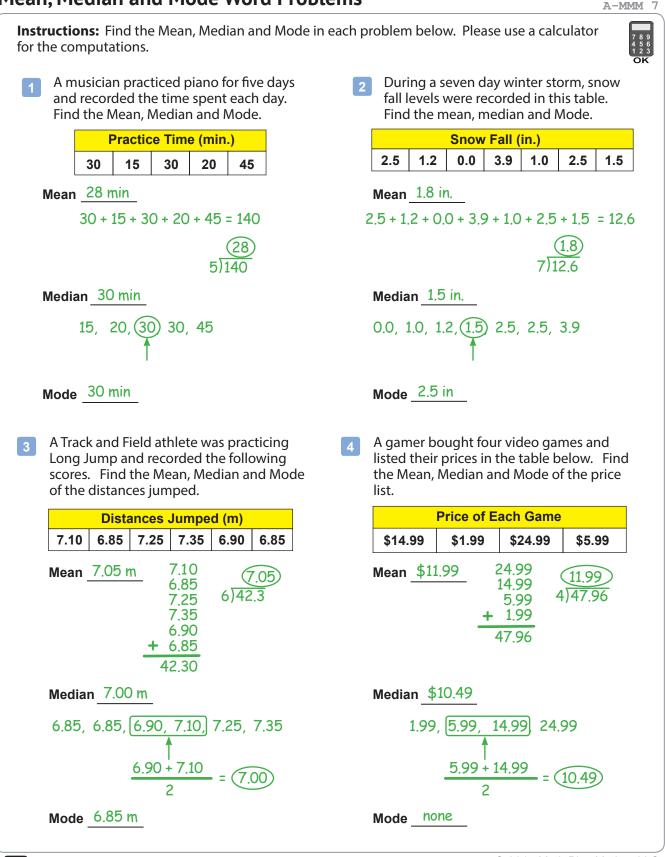
A-MMM 5 Instructions: Find the Mode of each set below. Remember, there may not be a Mode, or there may be more than one Mode. (Note: You can re-order the sets to make finding the Mode easier.)  $\{5, 2, 1, 5, 7, 3, 4, 6\}$  $\{8, 0, 0, 2, 4, 8, 10\}$ 1 2 {1, 2, 3, 4, (5, 5), 6, 7} {(0, 0), 2, 4, (8, 8), 10} The Mode is 5 because it Both 0 and 8 are Modes is repeated most often. [3] {5, 1, 2, 5, 1, 5, 5}  $\{15, 5, 30, 60, 25\}$ 4 {1, 1, 2, 5, 5, 5, 5} {5, 15, 25, 30, 60 } No Mode The Mode is 5  $\{0, 1, 5, 1, 8, 3, 3, 9\}$ 5  $\{0, 0, 1, 1, 2, 2, 3, 3\}$ 6  $\{0, (1, 1), (3, 3), 5, 8, 9\}$ No Mode (Because the Mode is not just a repeated number. It's the number Both 1 and 3 are Modes that's repeated most often.)  $\{12, 10, 15, 12, 18\}$  $\{7, 9, 7, 4, 4, 3, 3, 4\}$ 7 8  $\{3, 3, 4, 4, 4, 7, 7, 9\}$ {10,(12,12), 15, 18} The Mode is 12 The Mode is 4  $\{0, 1, 2, 3, 3, 3, 4, 4, 4\}$  $\{1, 0, 1, 0, 1, 0\}$ 9 10  $\{0, 0, 0, 1, 1, 1\}$ No Mode Both 3 and 4 are Modes





Date:

# Mean, Median and Mode Word Problems



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