

Name: _____ Date: _____ Period: _____

Mean Absolute Deviation Worksheet

Find the mean absolute deviation

87, 75, 85, 77, 74, 82, 90, 88, 79, 81

Data	Mean	Difference	Positive Value
87	81.8	-5.2	5.2
75	81.8	-6.8	6.8
85	81.8	3.2	3.2
77	81.8	-4.8	4.8
74	81.8	-7.8	7.8
82	81.8	.2	.2
90	81.8	8.2	8.2
88	81.8	6.2	6.2
79	81.8	-2.8	2.8
81	81.8	-0.8	.8

Sum:	46
Count:	10
Mean Absolute Deviation:	4.6

The average of the "Positive Value" column

MEAN ABSOLUTE DEVIATION

Q.1) Find the mean absolute deviation for the set below. $S = \{85, 90, 68, 75, 79\}$

- A. 79.4
- B. 6.48**
- C. 32.4
- D. 79

Q.2) Sherrie just registered for her wedding. So far 6 items have been fulfilled on her registry. Find the mean price of the fulfilled items. \$29, \$58, \$15, \$129, \$75, \$22

- A. 43.5
- B. 129
- C. 54.7**
- D. 114

Q.3) Find the mean absolute deviation of the fulfilled items on Sherrie's registry. \$29, \$58, \$15, \$129, \$75, \$22

- A. 196
- B. 54.7
- C. 114
- D. 32.67**

	E	F	G
35	18.75	18.75	
5	-11.25	11.25	
42	25.75	25.75	
16	-0.25	0.25	
3	-13.25	13.25	
8	-8.25	8.25	
12	-4.25	4.25	
9	-7.25	7.25	
		11.125	

1	-10.875	10.875
5	-6.875	6.875
29	17.125	17.125
3	-8.875	8.875
7	-4.875	4.875
35	23.125	23.125
6	-5.875	5.875
9	-2.875	2.875
		10.0625

Family A and Family B both have 8 people in their family. The ages of each member is listed below.

Q.4) Which statement is correct about the variability of the two families. Family A: 35, 5, 42, 9, 16, 3, 8, 12 Family B: 1, 5, 29, 3, 7, 35, 6, 9

- A. The variability is the same for both Family A and Family B because they have the same mean absolute deviation.
- B. The variability for Family A is greater because the mean is greater for Family A.**
- C. The variability for Family B is greater because the mean absolute deviation is greater for Family B.
- D. There is not enough information to determine the variability.

Q.5) Find the mean absolute deviation for the set below. $S = \{65, 90, 85, 70, 70, 95, 55\}$

- A. 12.24**
- B. 75.7
- C. 85.7
- D. 40

