Lesson 10-5

Mean Absolute Deviation

1. Find the mean absolute deviation of the data set.

Maximum Speeds (mph)			
58	88	40	60
72	66	80	48

Solution:

Maximum Speeds (mph)	Distance between each data value and the mean.
58	
88	
40	
60	
72	
66	
80	
48	
Sum =	

Mean = ——— =

The mean absolute deviation is

2. The table shows the number of daily visitors to a website on the Internet. Find the mean absolute deviation of the data set. Explain what the mean absolute deviation represents.

Number of Daily Visitors					
112	145	108	160	122	

Solution:

Number of Daily Visitors	Distance between each data value and the mean.
112	
145	
108	
160	
122	
Sum =	

Mean = ——— =

The mean absolute deviation is

3. The table shows the number of sunny days in various U.S. cities in the last month. Find the mean absolute deviation. Explain what the mean absolute deviation represents.

Number of Sunny Days in Various Cities Last Month			
15	27	10	19
24	21	28	16

Solution:

Number of Sunny Days	Distance between each data value and the mean.
15	
27	
10	
19	
24	
21	
28	
16	
Sum =	

Mean = ——— =

The mean absolute deviation is

4. The table shows the number of flowers sold by each sixth grade homeroom. Find the mean absolute deviation. Explain what the mean absolute deviation represents.

Number of Flowers Sold				
75	89	80	145	85
60	92	104	90	100

Solution:

Number of Sunny Days	Distance between each data value and the mean.
75	
89	
80	
145	
85	
60	
92	
104	
90	
100	
Sum =	

Mean = ——— =

The mean absolute deviation is