

Mean Absolute Deviation

1 #9 Bridges

The tables show the lengths of the longest bridges in the United States and in Europe. Find the mean absolute deviation from each set of data. Round to the nearest hundredth if necessary. Then write a few sentences comparing their variation.

Longest Bridges (kilometers)

United States			Europe						
38.4	36.7	29.3	24.1	17.7	17.2	11.7	7.8	6.8	6.6
12.9	11.3	10.9	8.9	8.9	6.1	5.1	5.0	4.3	3.9

1. Find the mean of the data for the longest bridges in United States

Subtract the mean from each data point and take the absolute value

Data Points	Minus Average	Equals	Take the Absolute Value
38.4	-	=	=
36.7	-	=	=
29.3	-	=	=
24.1	-	=	=
17.7	-	=	=
12.9	-	=	=
11.3	-	=	=
10.9	-	=	=
8.9	-	=	=
8.9	-	=	=

3. Find the mean of the absolute values.

4. The Mean Absolute Deviation for the Longest Bridges in United States = _____

5. Find the mean of the data for the longest bridges in Europe

6. Subtract the mean from each data point and take the absolute value

Data Points	Minus Average	Equals	Take the Absolute Value
17.2	-	=	=
11.7	-	=	=
7.8	-	=	=
6.8	-	=	=
6.6	-	=	=
6.1	-	=	=
5.1	-	=	=
5.0	-	=	=
4.3	-	=	=
3.9	-	=	=

7. Find the mean of the absolute values.

8. The Mean Absolute Deviation for the Longest Bridges in Europe is _____

9. Using complete sentences compare the Mean Absolute Deviations for the Longest Bridges in the United States and Europe _____
