

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

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

Use graph paper. Answer d and e in complete sentences.

Find the mean number of goals in the first 6 games of the season: 7, 6, 17, 8, 7, 9

How many goals were scored? Show your work

Find the distance of each data value from the mean? (remember distance is ALWAYS positive)

Find the distance of all of the data points from the mean?

What is the average of these distances. What is the mean absolute deviation of this data?

What does the mean absolute deviation of the data tell you about the number of goals scored?

Does the number 17 follow the pattern of the rest of the data? Explain what makes that

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(a) $54 \div 6 = 9$

(b) 2, 3, 8, 1, 2, 0

(c) ① 16

② $16 \div 6 = 2.6$

(d) The variation of the score is 2.6

(e) 17 is an outlier

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