What does it stand for?

What is it?

What does it tell you?

**Steps for Calculating MAD**

1. Find the average of your data set

2. Calculate the absolute value of each data points distance from the average found in Step 1

3. Find the average of those distances found in Step 2.

**Example 1:**

Student A has test scores 85, 89, 82, 78 and 89.

Student B has test scores 70, 85, 72, 95, and 83.

Find the MAD for each student and determine who the more consistent test taker is.

**Example 2:**

The table below shows the points scored by Lucas and Peydon during the last five home basketball games. Calculate the MAD for each boy's points and then answer the questions.

|  |  |
| --- | --- |
| Lucas | Peydon |
| 4 | 19 |
| 4 | 2 |
| 5 | 1 |
| 4 | 2 |
| 5 | 1 |

Who scored the most points?

Which boy had the greater average?

Based on the MAD, which boy do you think is the better player on any given day?

|  |  |  |
| --- | --- | --- |
|  | Alisa | Beverly |
| Math | 93 | 85 |
| Language Arts | 62 | 82 |
| Science | 95 | 84 |
| Social Studies | 94 | 85 |

**Example 3:**

Alisa and Beverly scored the grades shown below on their last report card. Which girl had the overall higher average? What conclusions can you draw from the table below? (use mathematics to back your answer)

**Example 4:**

Jonathan and Sarah earned the following scores on their last five tests, respectively: 56, 85, 89, 92, 88, and 75, 78, 77, 78, 72.

Using a sound mathematical explanation, who is the more consistent student?

Write your work and conclusions in the space below.