John Sullivan and Mary Truman's teacher wanted to determine which student was the better math student. Copy the Math Test scores for each student into the table.

Mathematics Test Scores	
John Sullivan	**Mary Truman**

Find the **Mean Absolute Deviation** (MAD) for both John and Mary

John's Mean =

Mary's Mean =

John's score of 58 deviated how far from the mean and in which direction? _____

How does the MAD show which student had the more consistent test scores?

_____

_____

Who in your opinion is the better math student? Why?

_____

_____

Mean Absolute Deviation

John Sullivan and Mary Truman's teacher wanted to determine which student was the better math student. Copy the Math Test scores for each student into the table.

Mathematics Test Scores	
John Sullivan	**Mary Truman**
46 58 59 89 98	65 68 70 73 74

Find the **Mean Absolute Deviation** (MAD) for both John and Mary

John's Mean = 70

M		AD
70	46	24
70	58	12
70	59	11
70	89	19
70	98	28
		+
		94

$MAD = \frac{94}{5} =$

18.8

Mary's Mean = 70

M		AD
70	65	5
70	68	2
70	70	0
70	73	3
70	74	4
		+
		14

$MAD = \frac{14}{5} =$

2.8

John's score of 58 deviated how far from the mean and in which direction? -12

How does the MAD show which student had the more consistent test scores?

Lower MAD means less variation and thus more consistent scores. Mary was much more consistent

Who in your opinion is the better math student? Why?

While John did really well on 2 tests, Mary showed more consistency and would be considered the better math student.

Mean Absolute Deviation