

Numerical Measures of Central Tendency – Reading Test Scores

i	NewMethodScore(i) $x(i)$	Deviation from Mean $(x_i - \bar{x})$	Deviation Squared $(x_i - \bar{x})^2$
1	80	3.6	12.96
2	76	-0.4	0.16
3	70	-6.4	40.96
4	80	3.6	12.96
5	66	-10.4	108.16
6	85	8.6	73.96
7	79	2.6	6.76
8	71	-5.4	29.16
9	81	4.6	21.16
10	76	-0.4	0.16

Column Sum	Column Sum	Column Sum
$\sum x_i$	$\sum (x_i - \bar{x})$	$\sum (x_i - \bar{x})^2$
764	0	306.4
Sample Mean		Sample Variance
$\bar{x} = \sum x_i \div 10$		$s^2 = \sum (x_i - \bar{x})^2 \div 9$
76.4		34.04
Sample Median		Sample Standard Deviation
77.5	$s = \sqrt{s^2}$	5.83