

The following are the results of Medical Students in an examination.

ID #	Score(/50)	minus 33.03	squared
69915	27	-6.03	36.36
70076	27	-6.03	36.36
69962	28	-5.03	25.30
69985	28	-5.03	25.30
69976	29	-4.03	16.24
66556	29	-4.03	16.24
65997	30	-3.03	9.18
66647	30	-3.03	9.18
69943	30	-3.03	9.18
69251	31	-2.03	4.12
69919	31	-2.03	4.12
69979	32	-1.03	1.06
69983	32	-1.03	1.06
69963	32	-1.03	1.06
67439	33	-0.03	0.00
69945	33	-0.03	0.00
69961	33	-0.03	0.00
69918	33	-0.03	0.00
69966	33	-0.03	0.00
69950	34	0.97	0.94
69937	34	0.97	0.94
69984	35	1.97	3.88
69977	35	1.97	3.88
69679	37	3.97	15.76
69863	38	4.97	24.70
65378	38	4.97	24.70
69922	39	5.97	35.64
69986	40	6.97	48.58
69796	40	6.97	48.58
48588	40	6.97	48.58
TOTAL	991	0	450.97

991/30	Mean	33.03	Median	33
variance	450.97/30	15.03	Mode	33

Standard deviation = square root of 15.03 = **3.87**

Highest score = 40 Lowest score -27

40-27 = 13+1 = 14 range

STEM AND LEAF PLOT

Intervals	Stem	Leaf	<i>f</i>
42-43	4		0
40-41	4	0,0,0	3
38-39	3	8,8,9	3
36-37	3	7	1
34-35	3	4,4,5,5	4
32-33	3	2,2,2,3,3,3,3,3	8
30-31	3	0,0,0,1,1	5
28-29	2	8,8,9,9	4
26-27	2	7,7	2
24-25	2		0
			30

- The mean, median and mode are all equal. The standard deviation tell us that we can find 2/3 of scores.
- This is a symmetrical distribution (unimodal). The mean, the median and the mode are approximately equal.
- The mean will be the appropriate score because it uses all the scores.

Conclusions: The results were evenly distributed. There were no outliers. Most of the scores were between the range of 32-33.

