

math score	history score
78	78
72	91
98	99
99	84
72	89
92	74
78	84
90	92
97	87
89	91
92	92
68	83
99	96
94	94
82	86
99	84
87	83
80	90
92	86
79	97
99	90
39	78
93	88
99	96
88	84
100	95
98	96
82	84
88	88

If you got a score of 94 in both classes, in which class did you do better?

To answer this, consider:

[1] mean and standard deviation for each class.

[2] z-score for your score of 94 in each class. $z = (x - \text{mean}) / \text{standard deviation}$.

[3] Percentile in each class. Make a frequency distribution table for each class.

[4] Quartile in each class (just for practice finding it).

Compare the z-scores and percentile scores for your score of 94 in each class. Based on that, you should be able to reach a plausible conclusion as to which class you did better in.

Do the analysis using your calculator, but also do enough of it by hand to understand how to obtain the numbers your calculator produces.

Suppose you got a score of 94 in both M and H. In which subject did you do better?