

Computations – See separate document

Everyone did a super job with the computations. I think you've got it! However, I did take off 1 point if you used the average score reported on the web page rather than the correct one for the data. I updated the average separately after I added one point to everyone's score; thus the difference. You should have used the average from the data and commented on the discrepancy. Some of you did all the work without answering the questions. What is the point of summarizing data if you are not going to interpret it? WELL DONE! I recommend you all take the time to learn EXCEL. It will save you hours and make your work much more presentable. THIS IS THE COMPUTER AGE! IF not, but some graph paper.

Summary of conclusions

1. The average scores were in the 70's, which is a typical "C" range.
2. There were sufficient scores in the 80's and 90's to indicate that the test was at the appropriate level.
3. There was a wide variation in the scores. See below.
4. Section 7 performed better than Section 12

Wide variation in scores

Both sections had a wide variation in scores which could be caused from variation in any of the following:

1. Skill level
2. Study time
3. Number of problems worked
4. Class attendance
5. Participation in class
6. Alertness in class
7. Note taking skills

Differences between sections

1. Section 7 had an average score 3.9 points higher than Section 12
2. Section 7 had a median score of 80 compared to Section 12 with 75.
3. Section 7 had a more symmetrical distribution than Section 12, which is what you would expect.
4. Section 7 had a much lower minimum than 12
5. Section 7 had 19 scores 80 or higher compared to Section 12 with 12 higher
6. Section 7 had a smaller standard deviation: 12.8 compared to 14.4

Possible Explanation of Differences

1. Smarter students – unlikely since profile quizzes for each section had nearly identical averages.
2. Studied harder – who knows?
3. Distracted because hungry – doubtful?
4. Time of day – a lot of responses here, but, really, tired in a noon class?
5. Lecture content and emphasis – possible, but I don't think so
6. Received test information from previous class – possible, but I hope not
7. Anxiety levels – should be the same?
8. Section 7 missed class due to weather – GOOD ANSWER, only one gave it!

	S-012	S-007	Diff
Mean	71.6	75.5	4.0
Median	75.0	80.0	5.0
Mode	76.0	76.0	0.0
Mean Dev	11.2	10.5	-0.7
Var	207.6	163.9	-43.7
Std Dev	14.4	12.8	-1.6
Nbr >79	12.0	19.0	7.0

Quantile	S 012	S 007
25%	62	63
50%	75	80
75%	82	84
90%	86	88

