

MAT 142 – Statistics Review Questions

1. On Wednesday's quiz, students in class #1 had an average score of 7.9 points, students in class #2 had an average score of 8.8 points, and students in class #3 had an average score of 8.1 points. If there are 28 people in class #1, 35 in class #2 and 38 in class #3, what is the overall average of students in all 3 classes. Answer to the nearest tenth of a point.
2. I live 20 miles from work. In the morning commute to work, I drove an average speed of 75 miles per hour. In the afternoon commute home, I drove an average of 50 miles per hour. What was my average speed? *Hint: divide total distance by total time.*
3. You've taken 3 tests in chemistry so far and have 2 more to take. All tests have a maximum score of 100 points and are equally weighted. Your test average after the first 3 tests is 73.33
  - a) Is it possible for you to raise your test average to an 80? If so, what average score would you need on the remaining tests? If not, what is the maximum test average you could reach?
  - b) What would your test average be if you scored 80 and 85 on the last two tests?
4. The following prices for a loaf of plain white bread were gathered from grocery stores across the Phoenix metro area. Find the mean, median, mode and standard deviation of this sample of prices.

Price (\$)	0.89	0.99	1.09	1.19	1.29
# of stores	5	8	18	22	7

5. 30 people exiting a parking garage were asked how long they spent driving to work. Here are their responses (in minutes):
  - a) Organize the data into a frequency chart using 5 intervals of equal lengths
  - b) Draw a histogram of the data – be sure to label!

32	15	5	12	8	40
6	18	22	24	21	16
30	36	44	15	11	25
20	19	33	12	10	24
35	17	30	5	48	34