

Name: \_\_\_\_\_

## Quiz #3 Enrichment Opportunity

To deal with the problems in Quiz #3, I am offering this opportunity to ensure that you learn these techniques. This sheet is optional but strongly recommended, especially for those who didn't do well on the first five questions of Quiz #3. It is imperative that you do what you can to learn these foundational skills so that when you later encounter them, you will be prepared to deal effectively with them!

Do NOT write in this box-instructor use only

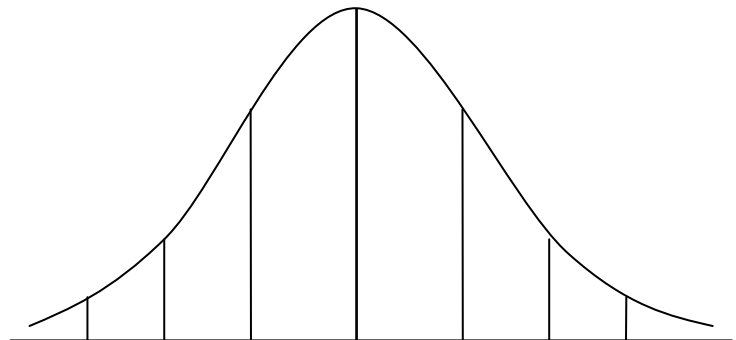
**Z Scores** are useful for showing us the placement of any one value (or score) within a distribution including the percents above and below that value. Let's use the information from Quiz #3 to find out how you did relative to the other students who took the quiz (see the summary statistics in the box). We'll have to assume that this quiz was normally distributed. **SHOW ALL OF YOUR WORK** in the area provided below each question - including the formulas! Attach your Quiz #3 to this sheet if you choose to turn it in for credit.

Quiz #3  
Mean = \_\_\_\_  
Sd = \_\_\_\_  
N = \_\_\_\_

1. Your Score on Quiz #3: \_\_\_\_\_
2. Your z-Score for Quiz #3: \_\_\_\_\_

*Show all your work!*

3. From Table A, for your z-score, Column b = \_\_\_\_\_%, Column c = \_\_\_\_\_%
4. Complete the graph (right) for the Quiz #3 data, including the quiz scores at each position in the curve (mean, +1, +2, +3, -1, -2, -3), your score and z-score, the percents above and below your score.



5. What is the percent of people who did better than you on this quiz?
6. What is the percent of people who did worse than you on this quiz?
7. What is your percentile rank?
8. What is the probability of someone getting a score between 7.25 and your score?
9. What does it mean for you to be in this position on this quiz? In other words, how are you doing in the class (and what is your plan to do better)?