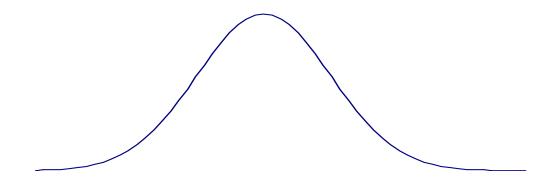
Homework #6: Calculations You Should Master

NOTE: I have shown some of the answers but not the computations. I need to see your computations for you to get credit for these problems.

1. A psychology professor gave a test and got the following scores.

A	В	C	D	Е	F	G	Н	I	J
12	12	7	10	9	12	13	8	9	8

- a. What is the mean for this distribution? 10.00
- b. What is the standard deviation for this distribution? 2.00
- c. The z score for person D is? <u>..00</u>. Show where this score is on this normal curve.
- d. The z score for person E is? -.50 Show where this score is on this normal curve.
- e. The z score for person G is? __Show where this score is on this normal curve.



2.	Use the scores for item 1 for the following questions. SHOW YOUR CALCULATIONS!							
	a.	What is the raw score for a z score of 0.00 ? 10.00						
	Ь.	What is the raw score for a z score of $+1.58$? 13.16						
	c.	The raw score for a z score of -1.96 is?						
3.	Given	a population with μ = 80.00 and σ of 7.5, answer the following questions. TO DO THESE YOU SHOULD DRAW THE PICTURE!						
	a.	What percentage of people score less than a z score of -1.00? 15.87%						
	b.	What percentage of people score 78 or less? ($Z =267$); 39.36 percentile						
	c.	What percentage of people score 86 or less? (Z=.80; 78.81 percentile						
	d.	What percentage of people score more than 97.47?						
	e.	What percentage of people score at or above $z = +1.96$ and at or below $z = -1.96$. 5%						
	f.	What percentile is a raw score of 100?						