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 | B | C | D | E | F | G | H | I | J |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 12 | 7 | 10 | 9 | 12 | 13 | 8 | 9 | 8 |

a. What is the mean for this distribution? $\quad 10.00$
b. What is the standard deviation for this distribution? 2.00
c. The z score for person D is? . 00 . 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

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 $0.00 ? \underline{10.00}$
b. What is the raw score for a z score of +1.58 ?
c. The raw score for $\mathrm{a} z$ score of -1.96 is?
3. Given a population with $\mu=80.00$ and $\sigma$ 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 $\mathrm{z}=+1.96$ and at or below $\mathrm{z}=-1.96 . \underline{5 \%}$
f. What percentile is a raw score of 100 ?

