1. For a population with µ=50 and σ=10,
2. What is the z-score for X=55, X=60, X=75, X=45, X=30 and X=35?
3. Find the X value that corresponds to each of the following z-scores, z=1.00, z=0.80, z=1.50, z= -0.50, z= -0.30 and z= -1.50.

1. Find the z-score corresponding to a score of X=60 for each of the following distributions.
2. µ=50 and σ=10
3. µ=50 and σ=5
4. µ=70 and σ=20
5. µ=70 and σ=5
6. For a sample with a mean of M=85, a score of X=90 corresponds to z=0.50. What is the sample standard deviation?
7. In a population of exam scores, a score of X=88 corresponds to z=+2.00 and a score of X=79 corresponds to z= -1.00. What is the means for the population? What is the standard deviation for the population?
8. A distribution with a means of µ=38 and a standard deviation of σ=20 is being transformed into a standardized distribution with µ=50 and σ=10. Find the new, standardized score for each of the following values from the original population.
9. X=48
10. X=40
11. X=30
12. X=18

**PLEASE SHOW STEP BY STEP HOW YOU SOLVE THESE PROBLEMS.**