

Homework 7

Name _____

1. Measure the length of your foot from the heel to the longest toe. It is probably easiest to do this while standing on the ruler. Using the computer, or by hand, calculate the percentile for your foot length. Use the following information:

Gender:	μ	σ
Male	10.53"	0.53"
Female	9.58"	0.51"

2. The Stanford-Binet IQ test is curved such that the mean score is 100 and the standard deviation is 16.

a.) What proportion of people score a 120 or lower?

b.) Mensa is an organization that you can join only if your IQ is in the top 2% of the population. What is the lowest score you can have to still be eligible for Mensa? (Hint: this is the 98th percentile)

c.) What proportion of people have IQ scores of at least 80?

3. The GRE (Graduate Record Exam- test you have to take to get into grad school- fun, fun, fun!) verbal test has a mean of 471 and a standard deviation of 114. From the Empirical Rule, we know that:

a.) 68% of people score between _____ and _____.

b.) 95% of people score between _____ and _____.

c.) 99.7% of people score between _____ and _____.