Chapter 7: Exercises 67, 68, 69, 71

Chapter 8: Exercises 95, 96, 97

67.

A. This is false because it can still be any variable.
B. Yes this is true to an extent but the variables could also be random.
C. This is true because the random deviation could go anyway.

68. (36,16)(16,10)

Could not figure out rest of the problem

69.

A. The yearly income of third a world country
B. 1000 of the average samples
C. 2000, 8000/1000
D. Wide differences could have average outcomes.
E. It will have higher probabilities closer to the mean.

71. B

Chapter 8:

95.

A. i. 71

   ii.3

   Iii.48

B. X is the height of the Swiss male.Mean height from a sample of 48 Swiss males.
C. Normal.We know the standard deviation for the population, and the sample is greater than 30.
D. i. CI: 970.151,71.49)

   ii.

   iii. EBM=0.849

96. In words, define the random variables *X* and X.

They are the magazines and the population.

¯Which distribution should you use for this problem? Explain your choice.
Random distribution because it would be a random variable.

Construct a 95% confidence interval for the population mean length of engineering conferences.
(239.84, 248.16)

84, 248

EBM = 4.16 97

A. i. mean= 23.6

   ii. standard deviation=7

   iii. n=100

B. X is the time needed to complete an individual tax form. The mean time to complete tax forms from a sample of 100 customers.
C. N(23.6, 7