1. The Bluth Company manufactures desks with a (population) average life of 20.0 years and a population standard deviation of 4.5 years. Average life of a Bluth desk is normally distributed.

(a) What proportion of Bluth desks will last more than 26 years? ______________

(b) What proportion of sample means of Bluth desks based on sample sizes of n = 100, will be greater than 20.0 years? ______________

(c) What proportion of sample means of Bluth desks based on sample sizes of n = 100, will be greater than 20.8 years? ______________

(d) What proportion of sample means of Bluth desks based on sample sizes of n = 64, will be greater than 20.8 years? ______________