

Student: Bernadette Gonzales
Date: 3/12/14
Time: 10:24 AM

Instructor: Denise White
Course: Math 135 Intro to Probability & Statistics Spring 2014
Book: Triola: Elementary Statistics Using Excel, 5e

Assignment: ASSN #5-6R

6.4.13. The ages (years) of three government officials when they died in office were 55, 46, and 60. Complete parts (a) through (d).

a. Assuming that 2 of the ages are randomly selected with replacement, list the different possible samples.

- ☐ A. (55,46), (55,60), (46,60)
- ☐ B. (55,55), (55,46), (55,60), (46,46), (46,60), (60,60)
- ☐ C. (55,46), (55,60), (46,55), (46,60), (60,55), (60,46)
- ☐ D. (55,55), (55,46), (55,60), (46,55), (46,46), (46,60), (60,55), (60,46), (60,60)

b. Find the range of each of the samples, then summarize the sampling distribution of the ranges in the format of a table representing the probability distribution.

Sample Range	Probability
0 92 46	
5 55 106	
115 9 60	
60 120 14	

(Type an integer or a fraction.)

c. Compare the population range to the mean of the sample ranges. Choose the correct answer below.