Community College of Philadelphia **Spring 2012**
Math 152-Probability **Dr. Yun Yoo**

Attendance Quiz 16

Name: _____ Date: _____

1. Given Data, fill out frequency first.

104	99	102	114	94	101	108	104	123	93
89	112	107	116	181	98	100	127	107	116
97	155	106	110	105	118	133	113	113	107
95	108	114	104	125	124	92	119	93	106

Then, find the sample mean from a frequency distribution. (Recall: $\bar{x} = \frac{\sum xf}{n}$)

Systolic Blood Pressure of Women	Frequency f	Class Midpoint x	$f \bullet x$	$f \bullet x^2$
80-99				
100-119				
120-139				
140-159				
160-179				
180-199				
Total	$n = \sum f$		$\sum (f \bullet x) =$	$\sum (f \bullet x^2) =$

Note: If we use the original list of 40 values, then we get $\bar{x} = 110.8$. Remember, the frequency distribution yields an approximation of $\bar{x}$, because it is not based on the exactly original list of sample values.

2. Find the sample standard deviation from a frequency distribution. I just recall for formula: $s = \sqrt{\frac{\sum fx^2 - n\bar{x}^2}{n-1}}$.

3. Find the sample variance from a frequency distribution. Remember that the relationship between standard deviation and variance.