17 – 4 Worksheet   Name _____

1. On a standardized aptitude test, scores are normally distributed with a mean of 100 and a standard deviation of 10. Find the PERCENT of scores that are:

a) Between 90 and 100   b) over 110   c) between 80 and 120

d) less than 80   e) between 70 and 100   f) more than 130

2. The standardized verbal scores of students entering a large university are normally distributed with a mean of 600 and a standard deviation of 80. Find the percent of scores that are:

a) between 600 and 760   b) greater than 680   c) less than 360

d) between 440 and 680   e) between 520 and 840   f) greater than 760

3. At a very large factory, employees must report to work at 8 am. The arrival times of employees are normally distributed with a mean of 7:52 am and a standard deviation of 4 min.

a) On a typical day, what percent of the employees are late?

b) what percent of the employees arrive before 7:44 am?

c) 0.5% of the employees arrive before what time?