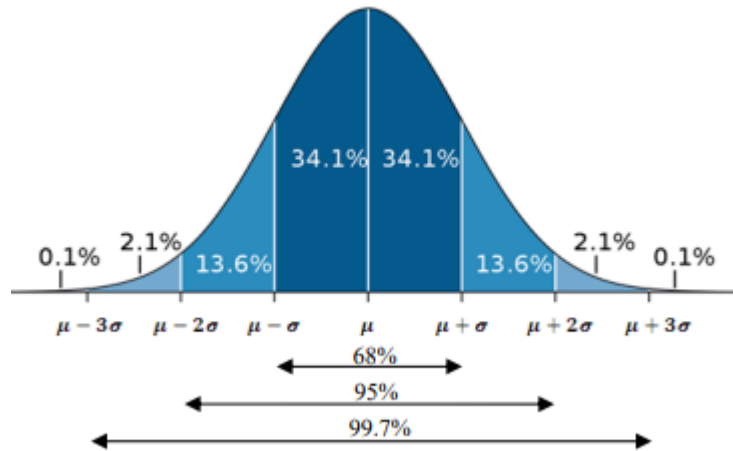# 12-2 Normal Distribution

Name: _____   Time› Start: _____   Finish: _____   Total Time = _____

Use the normal distribution chart above to answer the questions below.

_____ 1.   Pretend the mean lifetime of a battery is 600 days with a standard deviation of 70 days. Approximately what percent of batteries will last more than 671 days?

_____ 2.   Pretend the mean lifetime of a battery is 600 days with a standard deviation of 70 days. Approximately what percent of batteries will last less than 600 days?

_____ 3.   Pretend the mean lifetime of a battery is 600 days with a standard deviation of 70 days. Approximately what percent of batteries will last more than 740 days?

_____ 4.   Pretend that the normal height of male humans is 5' 9" with a standard deviation of 4 inches. Approximately what percent of male humans are under 5' 1"?

_____ 5.   Pretend that the normal height of male humans is 5' 9" with a standard deviation of 4 inches. Approximately what percent of male humans are taller than 6' 1"?

_____ 6.   Pretend that the normal height of male humans is 5' 9" with a standard deviation of 4 inches. Approximately what percent of male humans are between 5' 5" and 6' 1"?

_____ 7.   Pretend that the normal lifetime of an American is 80 years (only like 38 years back in the 1500's to 1800's) with a standard deviation of 5 years. Approximately what percent of Americans live for more than 90 years?