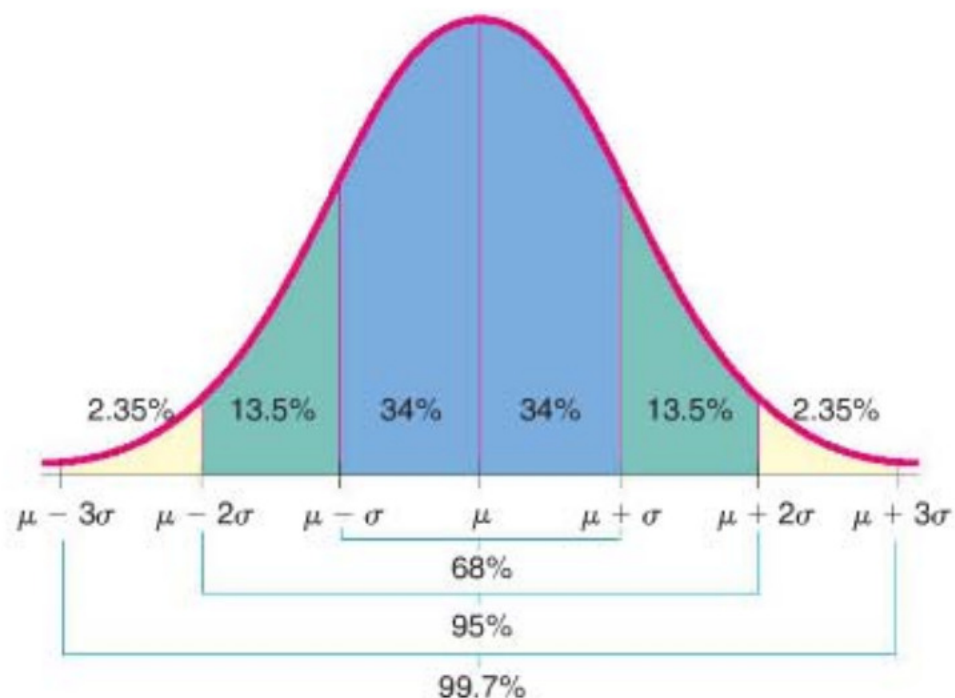


## Worksheet 7

### Worksheet 7.1c: Area Under a Normal Curve

Grades for our second statistics test follow the normal distribution with a mean of 84 and a standard deviation of 4.



- 1) Estimate the range of grades around the mean that includes 68% of the class.
- 2) Estimate the range of grades around the mean that includes 95% of the class.
- 3) Estimate the range of grades around the mean that includes 99.7% of the class.
- 4) What percentage of students have a grade higher than 84?
- 5) What percentage of students have a grade lower than 84?

