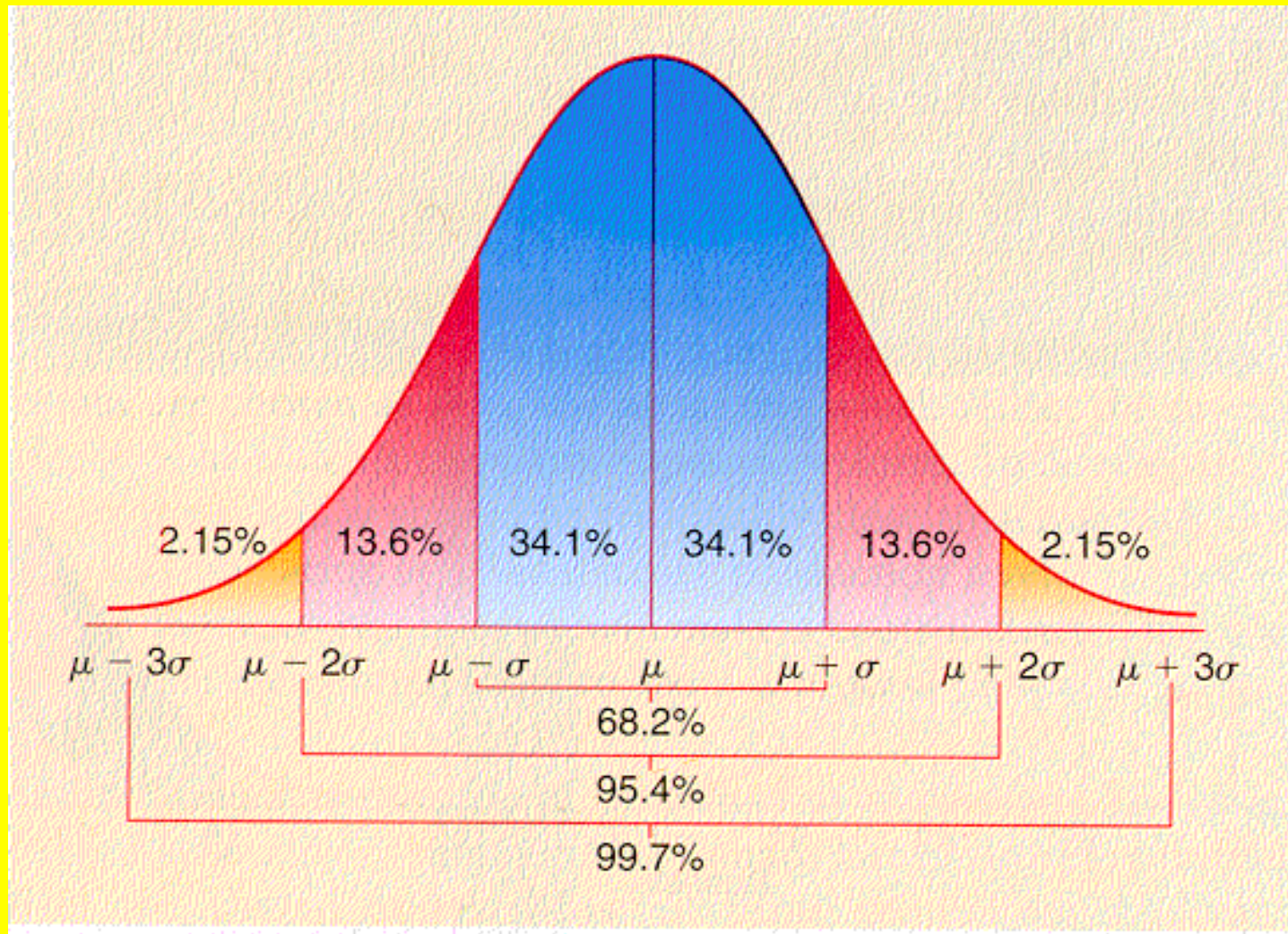


Unit 4 Lesson 1

Normal Curve



Formula for Variance

$$\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n}$$

Formula for Standard Deviation

$$\sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n}}$$

Finding Standard Deviation

- a. Add all the numbers together and find the mean
- b. Calculate the value of $(x - \bar{x})$ for each number x in the set.
- c. Square each of the values you found in part b
- d. Add each of the values from part c
- e. Divide the sum you found in part d by n (the number of terms)
- f. Take the square root of the value in step e to get the standard deviation