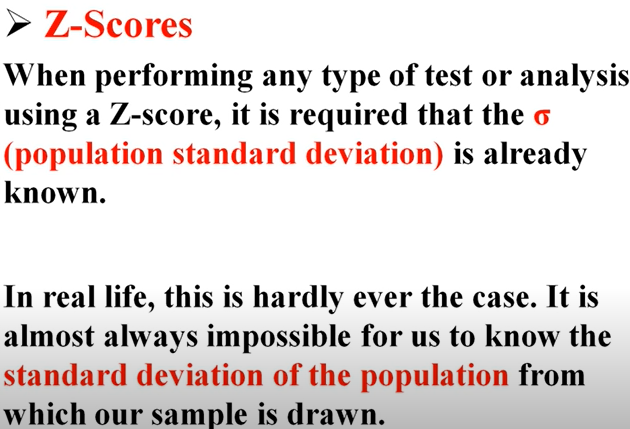
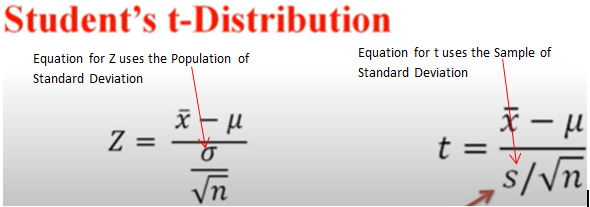
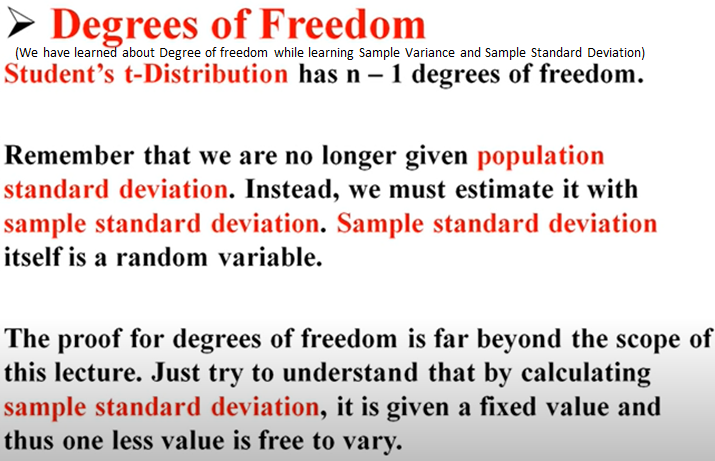
***Statistics Notes – 5***

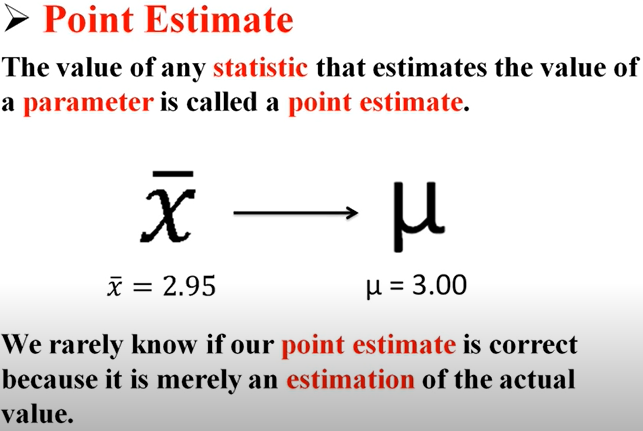
**Student’s t-Distribution**:

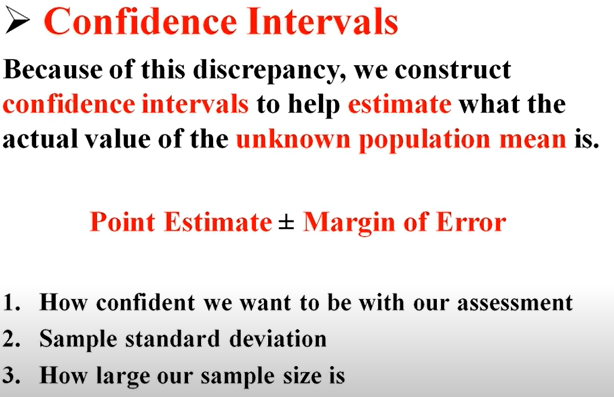


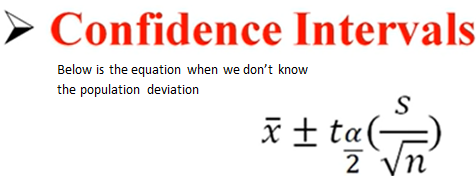


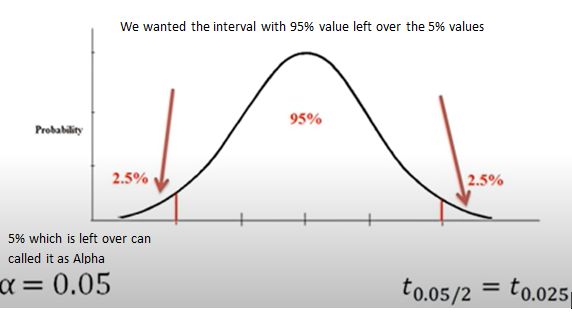


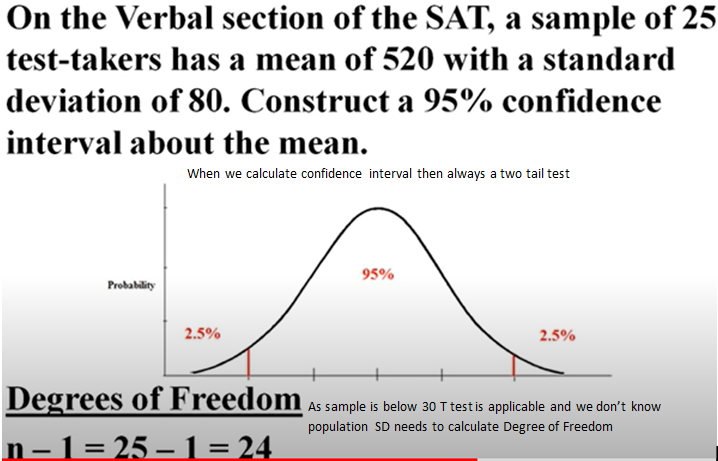
**Confidence Intervals about the Mean, Population Standard Deviation Unknown**:

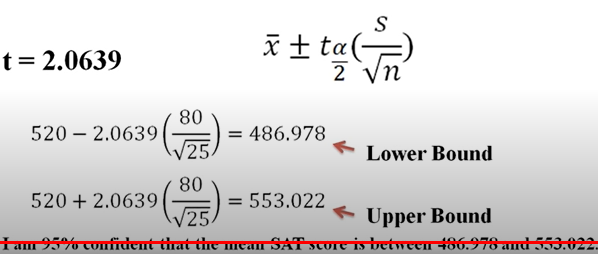
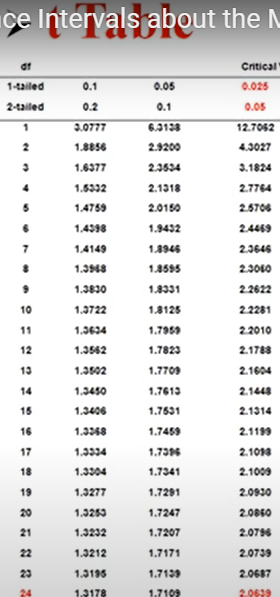




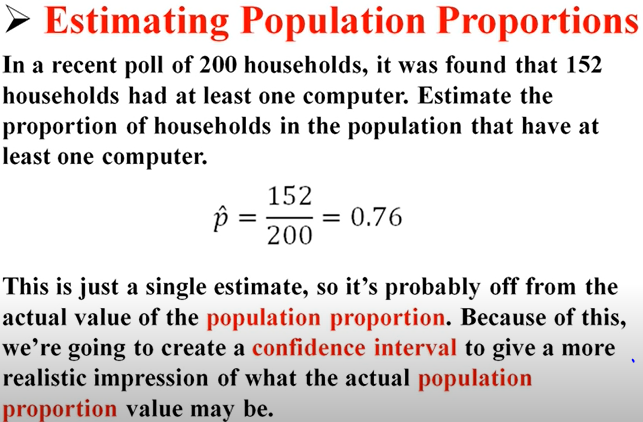


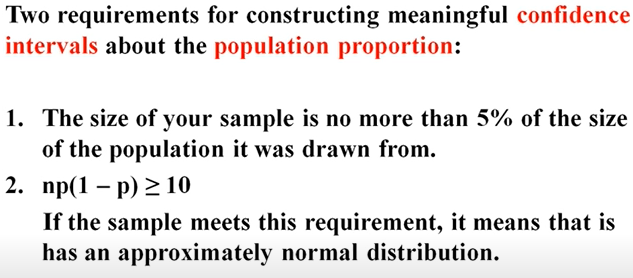


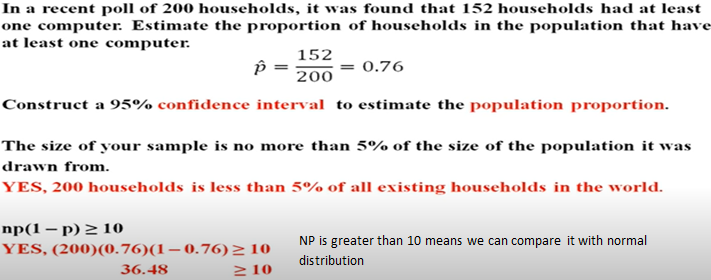


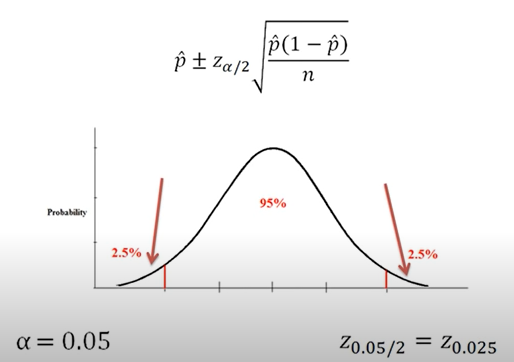


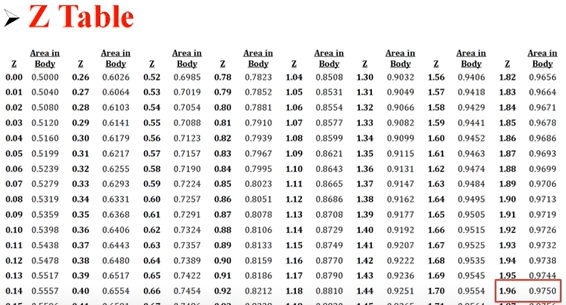
**Confidence Intervals about Population Proportions**:

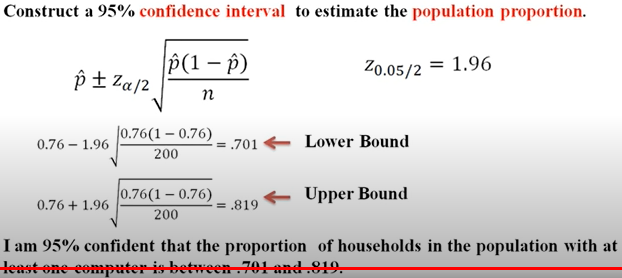




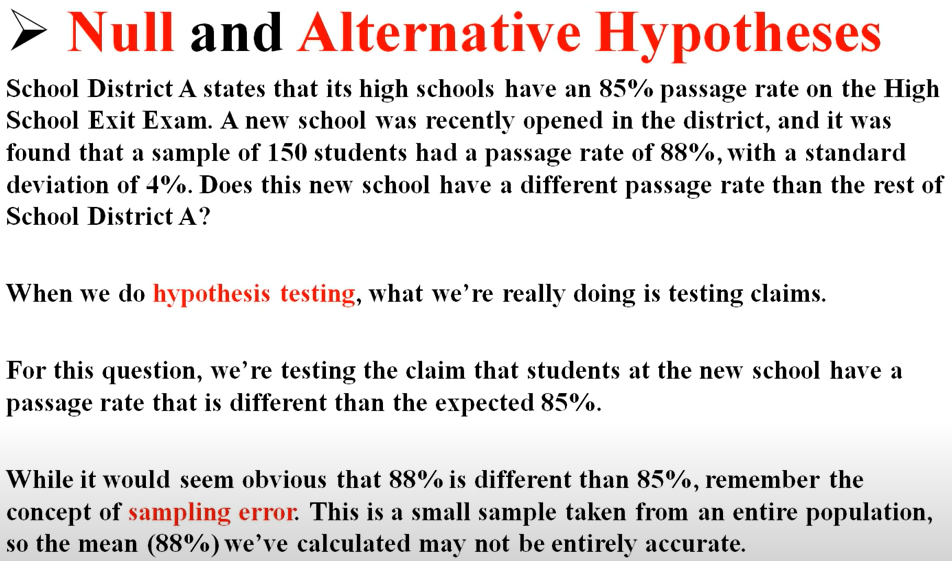


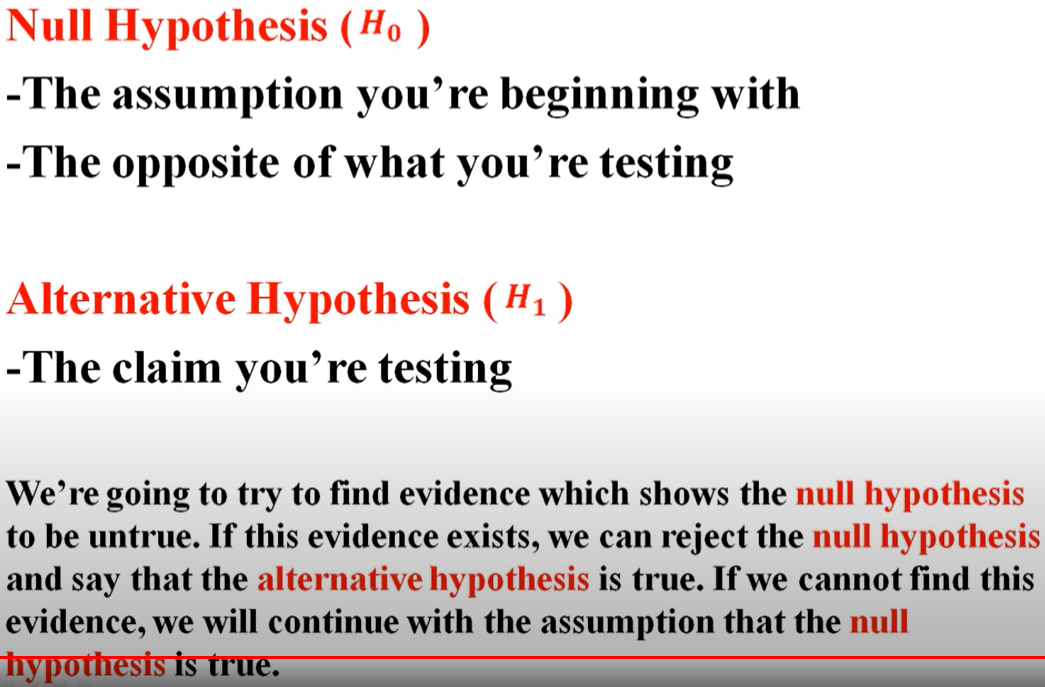


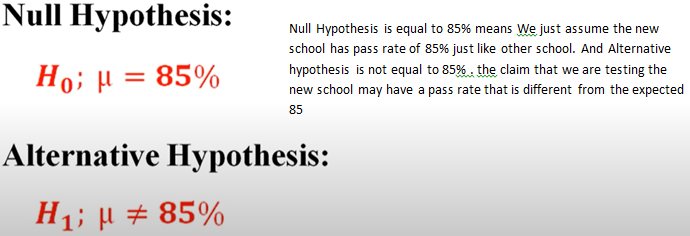




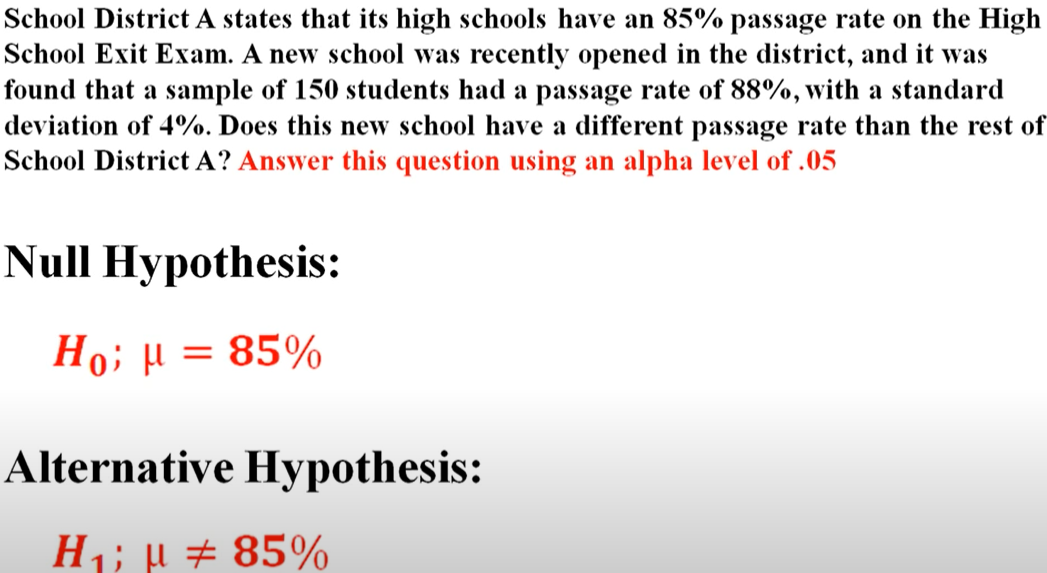
**Null and Alternative Hypothesis**:

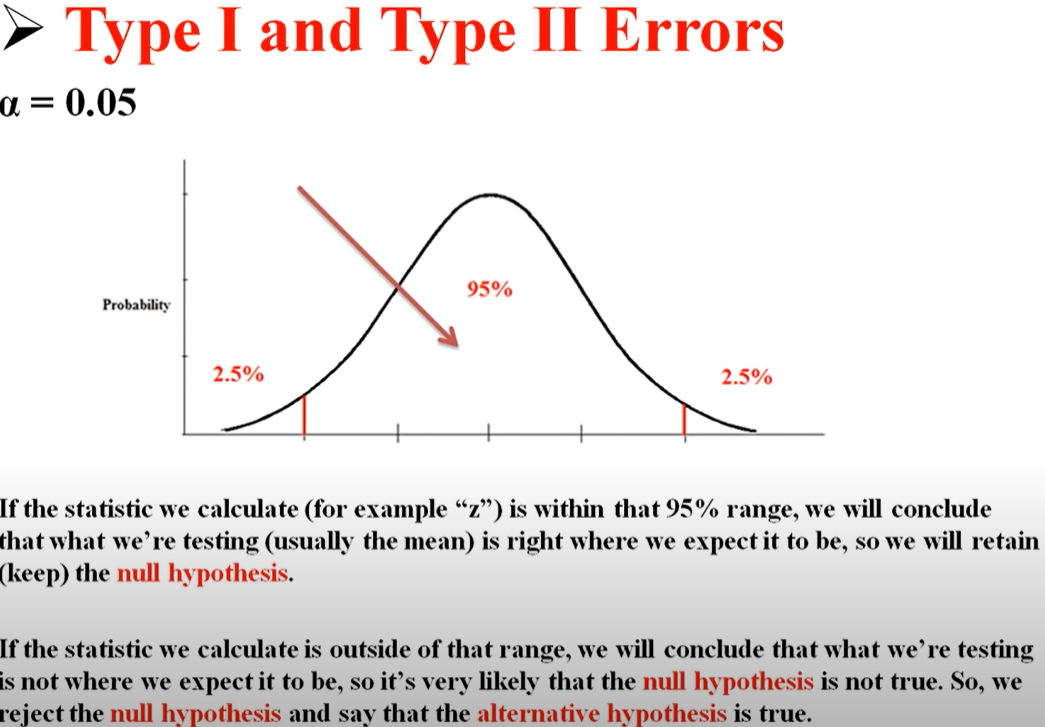


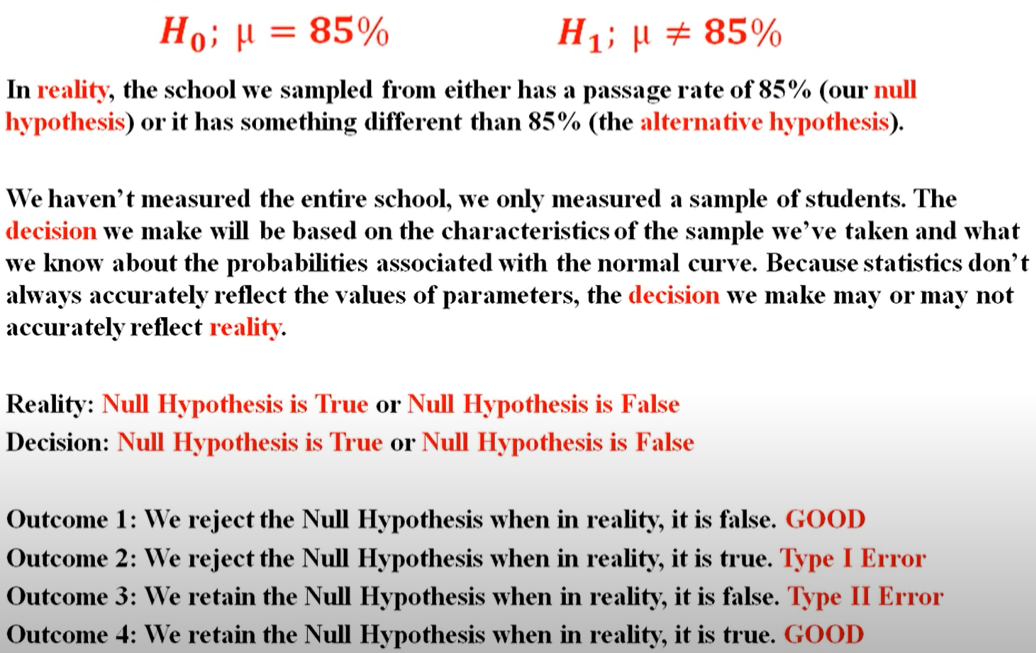




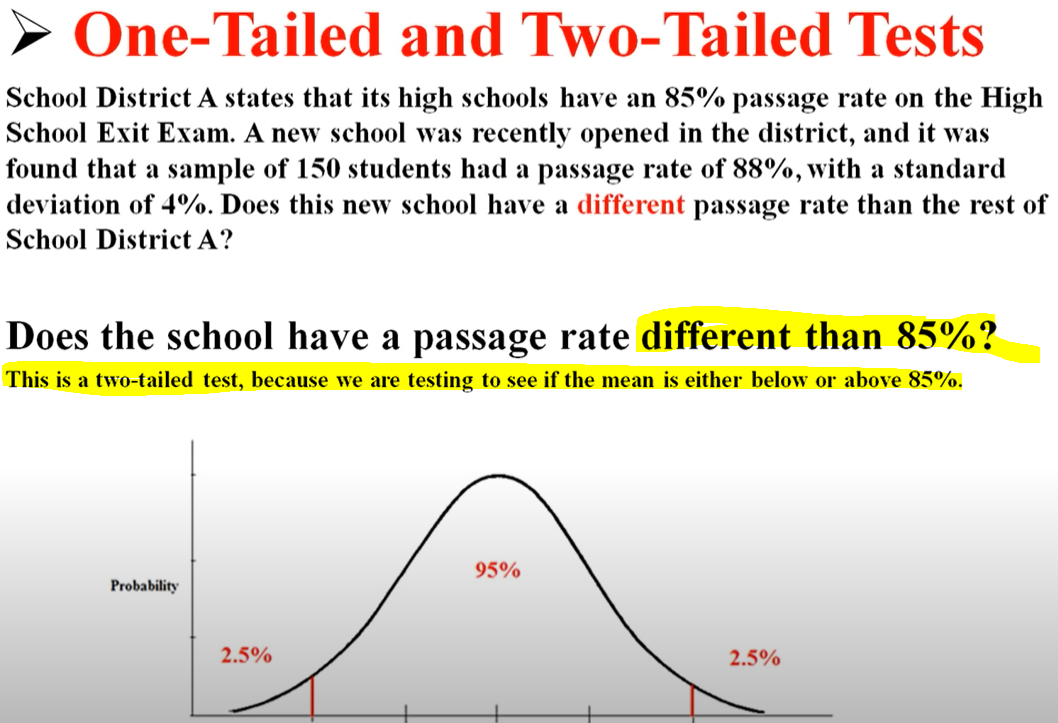
**Type I and Type II Error**:

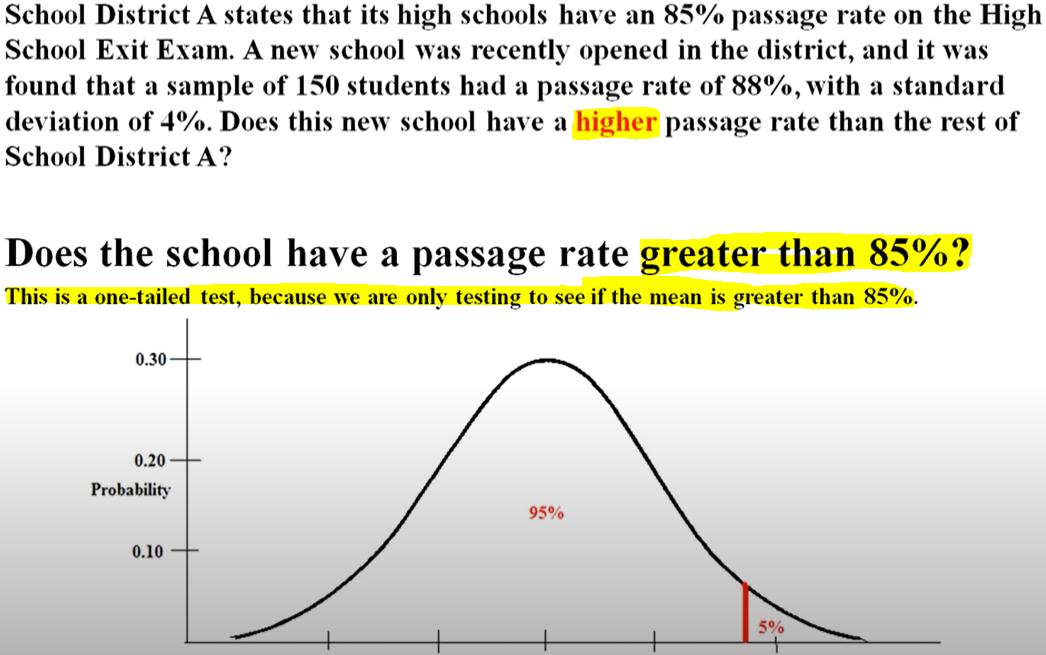


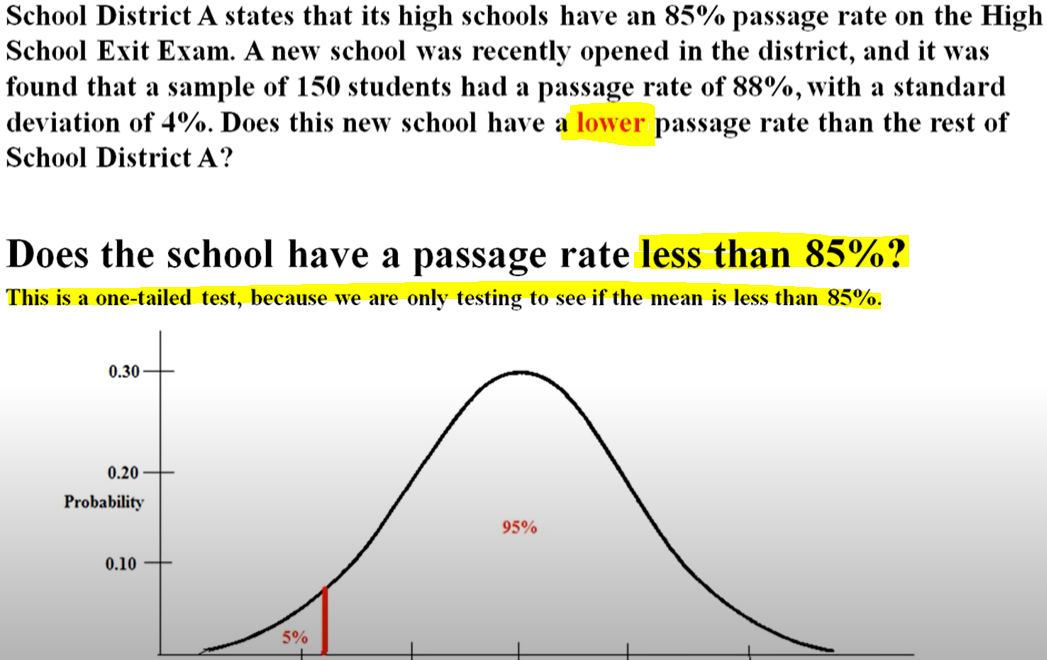


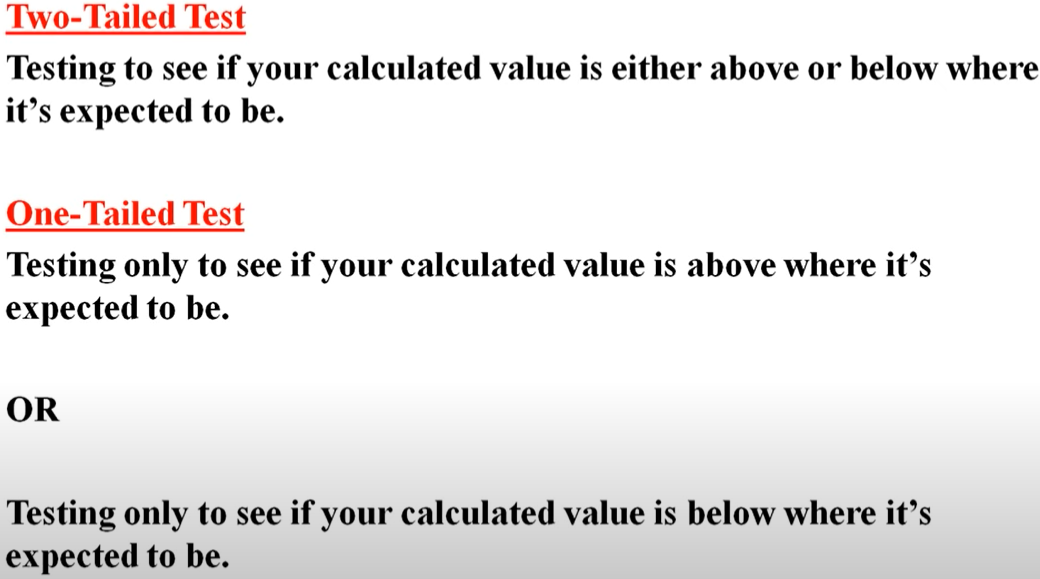


**One-Tailed and Two-Tailed Test Hypothesis Test**:

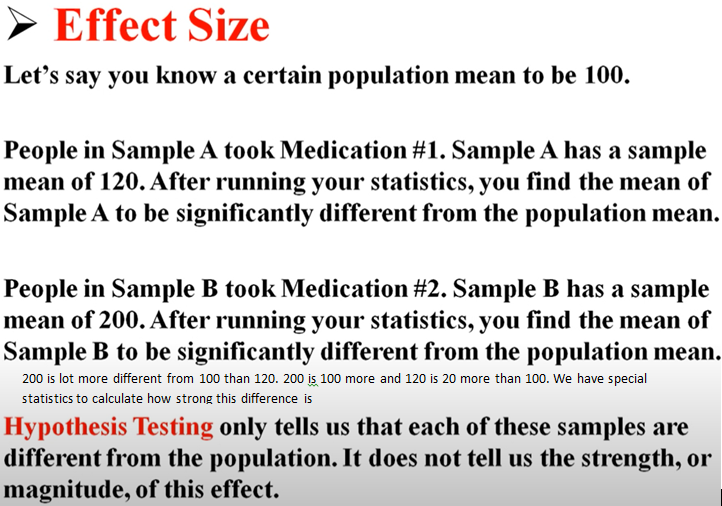


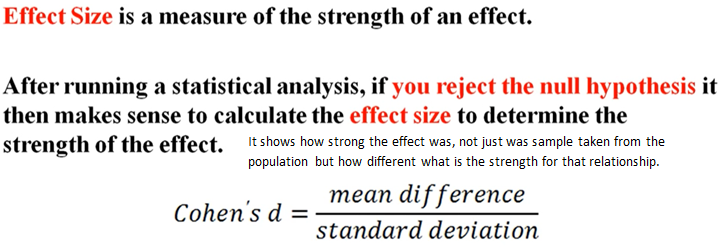


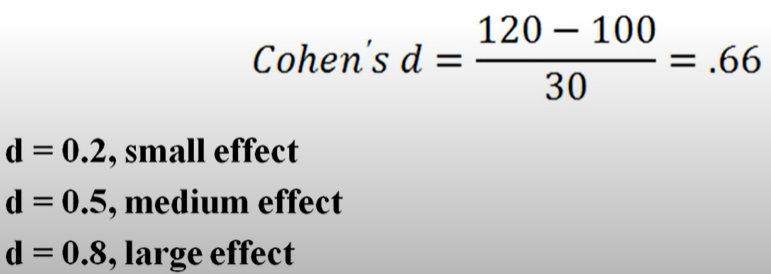




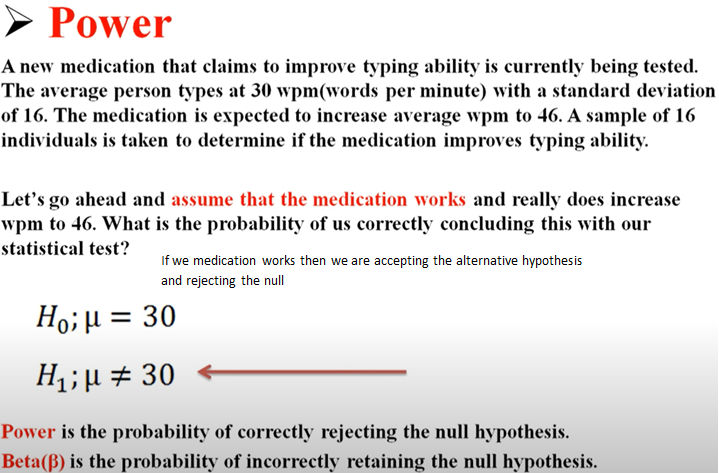
**Effect Size** whiledoing hypothesis test we want to calculate the effect size

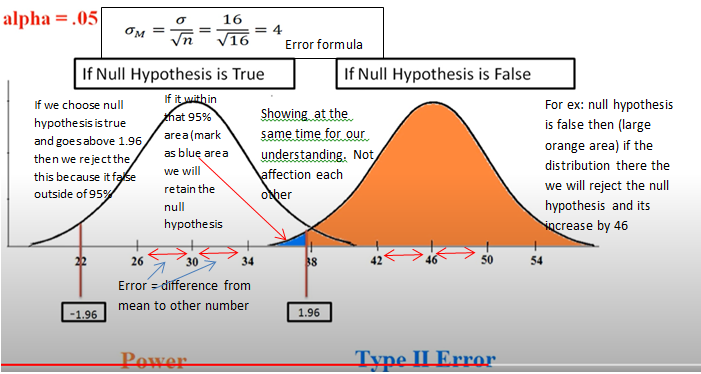


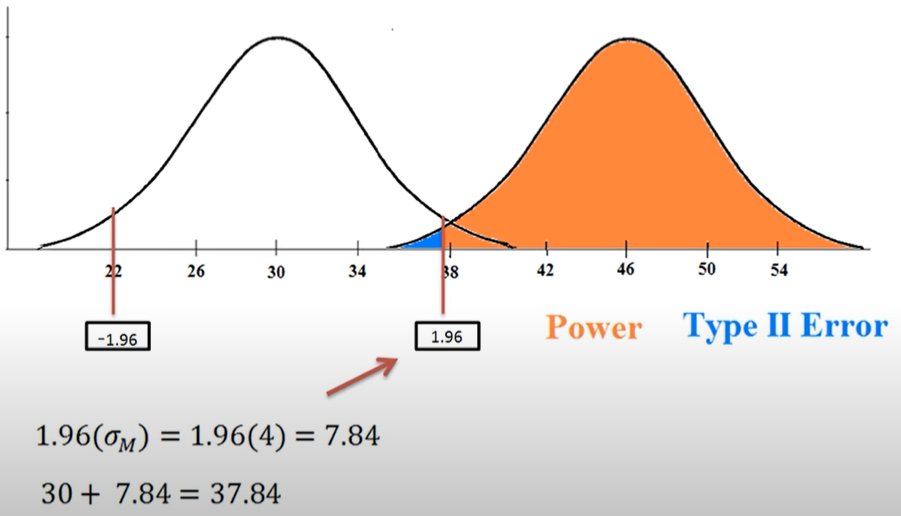




**Power:**







Find out 1.96 how many standard errors from the mean. Means it exists on 37.84

Now we can use 37.84 value to find out what probability are associated with power and Type II error.

