

WK 2

Collect Problem 1-1

F-TEST: COMPARES VARIANCE AMONG THE TREATMENT MEANS VERSUS THE VARIANCE OF INDIVIDUALS WITHIN SPECIFIC TREATMENTS.

YOUTUBE: "STATISTICS 101: F-RATIO TEST FOR TWO EQUAL VARIANCES" AND → F DISTRIBUTION YOUTUBE

$$F = \frac{n \overline{S_y^2}}{S_{\text{pooled}}^2}$$

WHERE: $n =$ SAMPLE SIZE
 $\overline{S_y^2} =$ VARIANCE OF THE MEAN
 $S_{\text{pooled}}^2 =$ MEAN OF VARIANCE

DO EXAMPLE OF TABLE 2-1 IN EXCEL

LSD = LEAST SIGNIFICANT DIFFERENCE

$$LSD = t_{\text{CRITICAL}} \times S_{\text{pooled}} \sqrt{\frac{2}{n}}$$

TAKE $t_{\text{CRITICAL}} = 2$ FOR 95% CONFIDENCY LEVEL

EXPLAIN EXAMPLE OF TABLE 2-2

EXPLAIN EXAMPLE OF TABLE 2-3 & TABLE 2-4