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* ANOUN - Analysis of variance group because Campasion are made between the niso sample. TYPES OF ANOVA * Single factor or one way ANONA It boulde factor or two way ANOVA DOWN LOAD FUD way Amara with reptired RESOURCES b) Two way ANOVA without replication. * Multiple factor AMOVA CHARACTERISTICS OF ANDVA - They are Independent Characters - Vanance is based on vanability between que nb and treatment -Obtain result of the difference STEP W SOLVING AMOVA - We first find out correction factor (CF) K=number of treat N=ne of replication. - compute total sum of square (SSt) ... Sstotal = sum of square - Tradmont aum of square. :: SS treatment = ST2 - CF - Compute sum of square error [SSE] .: SSE = SStotal - SStreatment. AT ANOVA TABLE sum of varietien of set mas feal ftab 4 3 4 8 9 8 84 2.87 Treatment Error 20 22.4 [1.12] ". Fool Us . Ftab \$.84 - Example (1) To determine the effect of mineral nutrient [N, P, K,S with central] on the field of curange Live add of honzontally and vertically! Treatment 1. replication 11 = potassium 4 5 6 4 B 24 12 = phusphones 4 2 4 4 4 18 T3 = Nutringen | 8 7 6 7 6 32 14 = Sulphur 3 2 3 3 4 16 15 = Central 3 4 3 3 2 15 20 20 22 21 21 20 = 104 Solution Ex = grand total K = Number of treatment = Number of replication CF = [Ex]2 = [104]2 = 10816 Kn 25 = 432.64 2. Compute total sum of square. [42+52+62+42+52---22]-CF = 486 - 432,64 = 53,35 1: SStotal = 53.36

13740 43264MAID RESOURCES = 474.8 -432.64 = 42.16 CF = 432.64 Sstreet = 42.16 Sstotal = 53.35 SSE = SStotal - SStrootment = 53.35-42.16 = 11.19 Using one way ANOVA table Sum of variation of soprect ms feel flak 4 42.16 (1.64 18.82 42 treatment Gror 20 31.36 Co.SO] n= 25 K=5=25-5=20 Sstreet = K-SSerror = n-k sstotal = n-1 MEASUREMENT OF CENTRAL TENDENCY * UN GROUPED DATE - MEAN . Find the mean of the following ungrouped 6 8 10 12 15 date mean = & solution = 6+8+10+12+15 -ASSUMED MEAN · Find the assumed mean using assumed method 4 10, find the actual mean of these scores 8,9,10,12,15 =10+6.80 = 10.80 - If the question provide column [F] the formular will be

-MEDIAN · find the median of following 1,5,6,2,4,8,9,11,13 Solution carrangement 1,2,4,5,6,8,9,0,1350 URCES DOWNLO median = 6 - If we have 2 median, then will be Find the mode 1) 1,3,3,7,9,11 = no moche 21121213,3,4,5,6 = 2 mode 3) 1,2,2,3,3,4,4,5,6, 9=3 mode - the common number that appears were than one * GROUPED DATA - MEAN - MEDIAN parameters finds = freq. of the median class. Efi = sum of lower median class Inter veel 11 = lower class Intervals. - MODE Expansion. LI = lower class boundary of the model class. C = class interval size. Di = frequency of madel class mit has the frequency of the next lower class. Da = frequency of the model class minus the frequency of heat higher class-PROBABILITY FORMULARS r! (n+) ! p - qn-YARIABLE PROBABILITY Mean = Pn Standard cteviation Variance = npg = Inpa standard error