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Malene Højbjerre
                     Opgaver lektion 8
              X: m sodavona X~ Ur(M, 152) approx. (0=15)
 10.15
               udtag streprove po 9, og bergen x
              Huss 7: 1914 x < 209, 58 fingers madeine ax, des 4=200
                                      ellers konfluderes H + 200
                                      Dus. in tester to: H=200
                                                                     to side to kenat
                                                      Hy: H = 200
                                        Ho for knokes huss 8 4 191 eller $> 209
              - P(type I feil) = P(torkante Hol Ho sona)
               nar 4=200
                                  = P(X < 191/ M = 200) + P(X > 209/ M = 200)
                                  = P( \frac{x-11}{5/3} \rightarrow \frac{191-200}{5/3}) + P(\frac{x-11}{5/3} \rightarrow \frac{15}{5/3})
                                   = P(2K-1.8) + P(2>1.8)
                                   = 2 \cdot P(2 < -1.8) = 2.00359 = 0.0718
              P(type II feil) = P(accepterer to 1 to falok)
              NET H=215
                               = P(191 < 2 < 2091 M=215)
                                  = P ( 191-/1 / 2 / 209-11 )
                                  = P( +91-215 / Z / 209-215)
                                  = P(-4.822 < -1.2) = 0 1151-0= 0.1151 V
                             \mathbb{Z} \sim U(y_1, 40^2) 5th kprove n= 30 giver \tilde{X} = 788 times
10.19
            X: Livstia
             Ho: H= 800
                              to sidet (or kenat)
            H1: H$ 800
            \frac{2}{2} = \frac{\overline{X} - H_0}{\sigma / \sqrt{n}} = \frac{788 - 800}{46 / \sqrt{3}\sigma} = -1,64
             P-verai: P= 2.P(Z>1,64) = 20.0505 = 0.1010
             dus. in ten itele for took to for significans when a < 0.10
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og mand,

vi accepter, at de e ons voigns for kvinder

Malere Højbjem Opgaver telepron 9 10.30. Strippieve I: n= 25 fra namelpopulation med 0,= 5.2-X1=81 Sheprove II: n2=36 fra normalpopulation med 02=34 > X2+ 76 Test: Ho: My=M2 (My-M2=0) Ha: M+ M2 (M-M2 +0) Teststorretse: $2 = \frac{(\bar{x}_1 - \bar{x}_2) - d_0}{\sqrt{\sigma_2 \gamma_{01} + \sigma_2 \gamma_{02}}} = \frac{81 - 76 - 0}{\sqrt{5.2 \gamma_{25} + 34 \gamma_{36}}} = 4.22$ P-varai: P=2P(Z>4.22) < 2.0.0002 = 0.0004 P meget will derpr proces'Ho 10.35 Shiprove treatment: n=5 -> x= 2.86 5=3.883 Shippowe no treatment: $n_2 = 4 \Rightarrow \bar{x}_2 = 2.075 \quad s_2^2 = 1,363$ Antas normal procelle populationer med 0,=02 Teot: Ho: M1 = M2 Hy: My>Mz (Hor server effect?) (ensident) Signif Korsnurau: a = 0.05 to.05, min = 1.895 Teststanche: $t = \frac{(x_1 - \overline{x}_2) - do}{5p\sqrt{\frac{1}{n_1} + \frac{1}{n_2}}}$ hucr $S_p^2 = \frac{(n_1 - 1)S_1^2 + (n_2 - 1)S_2^2}{n_1 + n_2 - 2}$ $sp^2 = \frac{4.3.883 + 3.1.363}{7} = 2,77$ = 0.70 Beoluting: Forkcot Ho hus t>1.895 Accept 110 his t < 1.695 (aller iven for kost) t=0.70 betyde accept the dus der er ens mu. for de to grupper, og mon ken allse ikke se or effect at serm