रा० स्पर्याताना नुसार् । १२ मार् Hypothesis testing 61011433 an engineer measured the Brinell hordness of 25 pieces of ductile iron, result data were: 170 167 174 179 179 187 179 183 179 156 163 156 187 156 167 156 174 170 183 179 174 179 170 159 187 the engineer hypothesized that mean Brinellhordness of all such ductile iron pieces is greather than 170. There for he was interested in testing the hypothesis:

Ho: U=170 H1: U7170 पिछ ८ = 0.05 ; ध्वीपानकाँ १ र्था $a \approx 150$) mean = $\frac{50}{0} = \frac{4313}{35} = 172.52$ standard divertien: $\sqrt{\frac{\xi(x-x)^2}{N-7}} = \sqrt{\frac{2552.24}{24}} = \sqrt{106.343} \approx 10.31$ 0.05 rejection regard Critical Value = 1.7109 7= 12-1 = 179.5-170 $=\frac{2.5}{2.069}$

= 1.0919

रात स्योग्ने नुसम् पर्याम् linear regression 61011433 Does a car's weight negatively effect mile per gallon (MPGI)? what is least sara reasons 0819 10 512 7 40-Ω=5864 - 0.1X weight MPG 34 2168 2345 37 2500 30 2716 31 2931 MULLO SE = 0,0009 3015 3109 tz -11.83 23 3197 3310 P = 0.0000 21 3490 20 3715 5 = 1.596 3902, least square line Modul Judy XN2 IX = 36998 Masxy 73710 4700224 zy = 314 5499095 86765 $\bar{X} = \underbrace{5X}_{N} = \underbrace{36998}_{19} = \underbrace{3093.76}_{19}$ 35000 6950000 84196 7376656 $\bar{y} = 5y = 314 = 26.16$ 8590767 76206 9090995 78390 $55xy = 5xy - \frac{5x5y}{12} = 918889 - \frac{36398(914)}{19} = -33,595.3$ 77725 9665887 73531 10220809 79440 10956700 $SS_{xx} = SX^2 - (SX)^2 = 113536610 - (36398)^2 = 3155409.6$ 73290 19180100 74300 13801295 6633U 13225604 b = 55xy =-6.07 EXY= 918889 5x2=113556610 a = 5-0x = 26.96 - (-0.07)(3093.76) = 58.4 9 = 58.4 - 0.01X 9/3/16/18/19/2 Ho => B = O ; B 8/0 s ope HI => BLO on df=10, t-value = -11.8 662 p-value 20 on lugaran straturar acoloites Ho No

(คองว่ากุด อนุกณา ขายนุกรบนุการ สภูราช Wed 82