Homework 7 E232 Many Methon I pleafe on honor that I have abided by the Sturens Honor System 7.8) Max possible error Estimate of uncertainty X = 12.5 ± 1.25 cm = 12.5 = 11870 k= 700 = 18 N/cm = 700 = 25.7% F=kx F=700.12.5=8750 ± 35.7% 70 oncert = 0.257+0.1 3123.75 N Max possible err = : Unartainty: 35.70% 7.20) avg = total = 2483 = 248.3 $S+ diov = \sqrt{\frac{10}{2}(2-248.3)^2} = 0.5477$ Pxfral = = ta. our (Sx) = = = 2. 262. 0.5477

 $= \pm 0.392$

Psygle = = 2. 262.0. J477 = = 1.24

7.21 nuan = sum = 1.944

6) S= 0.0(6465 Sof mean = 0.0(6465 = 0.0052)

c) P = = t a,0.000 " Sommer.

= ± 2.262.0.0164.65

= ± 0.037a

d) P = t ta, oods · Sal man

== 2.262.0.00521

= = 0.0118