Assignment - 6 a) In the Us the ages of individual in a small town were found to be the following 20% 30% 50% In 2010 of n= 500 individuals were Sampled Below are the results 288 18-35 735 121, 288 100 01 911 using K=0.05, would you conclude that the Population distribution of ages has changed in the last? 10 years? 18-35 7351

10)
01-500
01-500
01-500
121 288, 91 Expedd 100 150 250

Ho: The Data meets the expected Distribution H1: The Data doesnof meet the expected Distribution

d= 0.05 CI = 95/1 n=500

Degree of freedom = K-1= 3-1=2

using chi-square table => 5.991

X2 \(\langle \langle \fe \) \(\frac{1}{fe} \) $= \frac{\left(121-1200\right)^{2}}{100} + \frac{\left(288-150\right)^{2}}{150} + \frac{\left(91-250\right)^{2}}{250}$ = 232-49 x2 > 5.991 { Regret Ho 3. Assignment a) what is the value of 99 percentile 2,2,3,4,515,5,6,7,8,8,8,8,8,9,9,10,11,12,12 Percentile = Value below 1 x100 Value = Percentile + 1 $=\frac{99}{100}\times20=0.99\times20$ Value = 19 index + 20 jundex 11+12 = 23 = 11.5