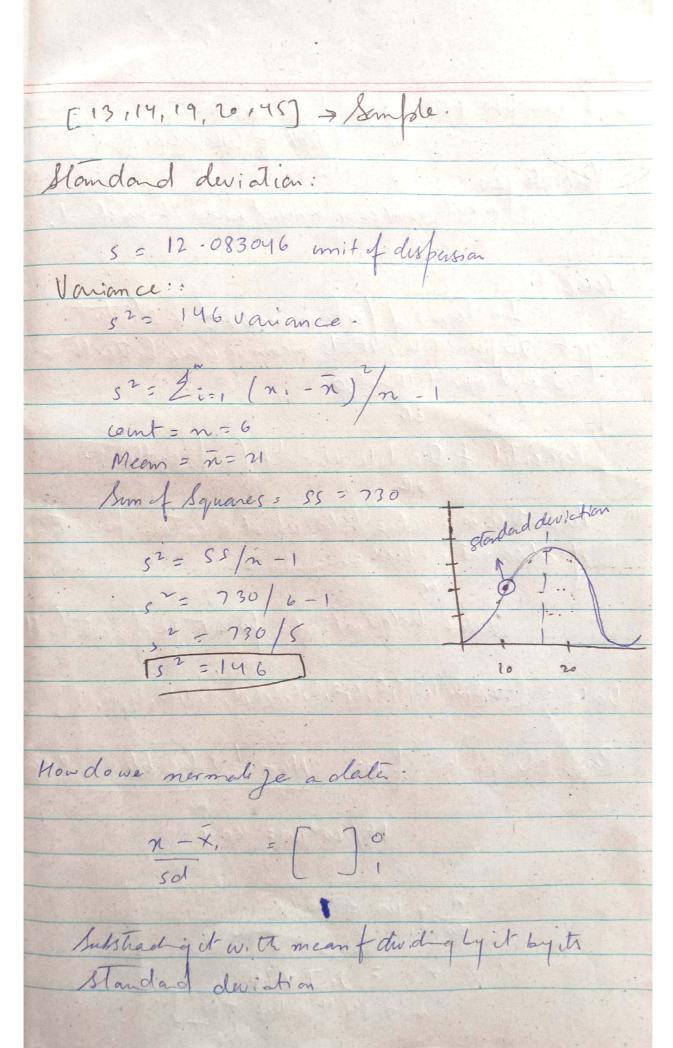
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1	10,12,12,14,22	20 12.19	01 00 74	
mes: 1	10,12,12,14,23,	,34	12,29,36,	56,45,
3 / /	11, 40, 31,39)			
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Measured Contint Tendences
Measure & Central Tendency: Mean, Median, Mode
Measure of dispussion:
Standard Deviation Variance
Vaniance
ages = [13,14,15,19,20,45]
Incom:
U= phulalation mean. U= \(\frac{2}{x}/N\) \(\times = Sample mean \(\times = \frac{2}{x} \setm\)
X = Sample mean X = 2 x/n
= 2 x = som of all data values, N = nember folata : tems in
= 2 x = som of all data values, N= number foldata; tems in population, n= number of data items in sample. Mode: [13,14,15,19,20,45]
Mode: [13,14,15,19,20,45]
"Most repeated value, All are unique, soevery value up here, is mode.
value up here, is mode:
Median: The number in the midelle.
Median: The number in the middle.
For odd = For Even :
$\left(\frac{n+1}{2}\right)^{th}$ $\left(\frac{n}{2}\right)^{th}+\left(\frac{n}{2}\right)^{th}$
$\left(\frac{n+1}{2}\right)^{n}$ $\left(\frac{n}{2}\right)^{n}$ $\left(\frac{n}{2}\right)^{n}$ $\left(\frac{n}{2}\right)^{n}$
Even = 2, 4, 6, 8, 10
rdd= 1,3,5,7,9

er The more away from mean, The datalis more unvaluable? "The more close the mean, The data is Measure f. dispusion: more valuable" · Standa of Deviation · Variance. Mean: [21,21,21,21,21,21,21] = 21 Mode: 21 Median : 21 · Variance: MOD that Takes into account The spread of all data pints in a data set. Population: 02= 1 (n; - U) N 52= 2 (n; -x or = population variance 52 2 Sample variance n: = value of it value / element n; = Value of the elend The - Sample mean 11 = pepulation mean n: Sample siza No philalian size. a Degree of Freedom! Sample must be 21 us then population Monising I in the end, to eliminate the factor of defendency.



o 5 number theory and box blet: Vercentage: a rate member or amount in each hundred Percentile: In Tums of performance, of a student. To and warst than 30. Percentile of Quantile used to find outliers. Percentile is a value below which a certain percentage observation lies. value below which a fercente ge of data fall [2,2,3,4,5,5,5,6,7,8,8,8,8,8,9,9,10,11,11,12 Percentile railing fro: Num of value before \$ 100 16/20 = 100 = 80.1. n = 100: = 70%. = 14 th value

Five Num ber Summay: Minimum, First Quartile, Median, Third Quartile, Ma xim um. n=[1,2,2,2,3,3,4,5,5,5,46,6,7,7,7,8,8,8,7] Lower funce = Min = Q1 -1.510R Upper fince = Max = 03 +1.51012 1012- Q3-Q1 0; = (20°25) / 100 = 5th Value = 3 () = (20 ,75) / 100 = 15 th value = 7 IQN = Q2 = Q1 Lowerence: (01-1.5/4)= 3-(1.5)4=-3" Upper = Q3 - 1.5 (4) = 7 + 1.5 (4) = 13 val