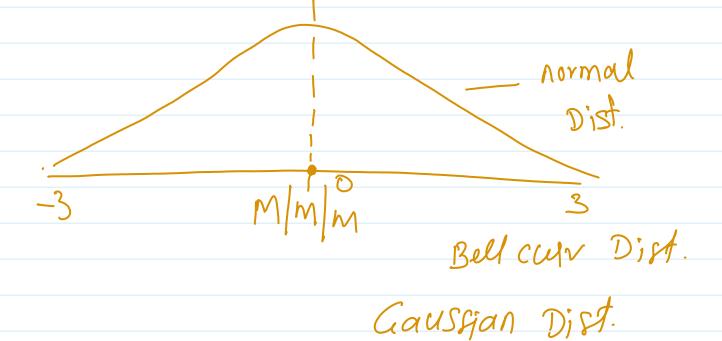
7	Sta	Hist	1cs		Ing	Terent	jal	
A	Population Sample Measure mean		N n cent	les ter popula	nde p	rey 1		
	meelian ——	X	=	Samp Nel 1	ole		f orde	4
	mode	=	Hi	shest	freg	yuen G ₇	1 07	

mode = Highest frequency of
any no

A measure of Dispession

- 1) Variance
- 2) Standard deviation.



(1) variance

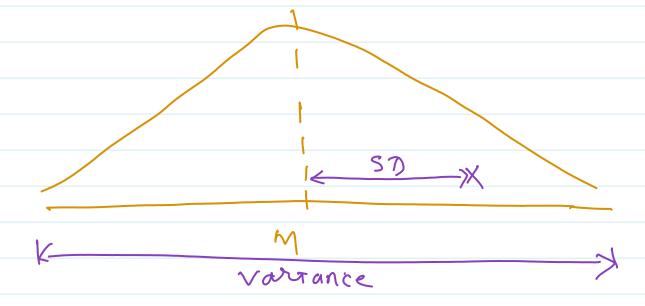
$$\sigma^2 = \sum_{i=1}^{N} (x_i - U)^2$$

$$S^{2} = \sum_{i=1}^{n} \frac{(x_{i} - \overline{x})^{2}}{n-1}$$

2) Standard Deviation

$$\sigma = \sum_{i=1}^{N} \sqrt{(x_i - y_i)^2}$$

$$S = \sum_{i=1}^{\infty} \frac{(X_i - \overline{X})^2}{N-1}$$



3 Range

max value min value

Raye = max-min

8 1,2,4, 11, 17, 19,21, 23,40,49,556

= 55-1 = 54

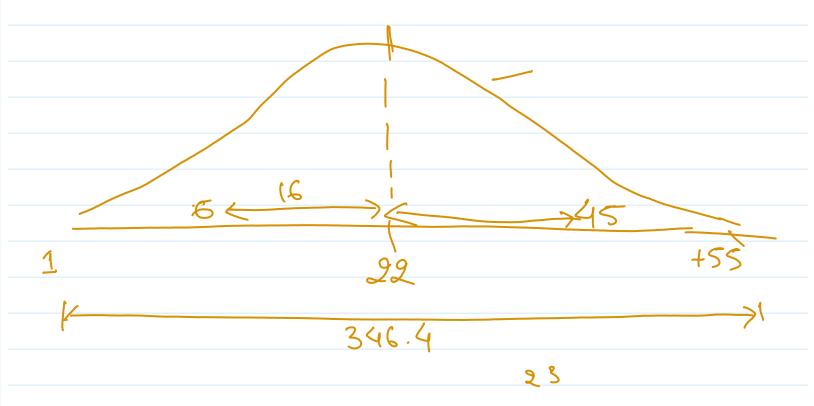
X = 22

 $S^{2} = (1-22)^{2} + (2-22)^{2} + (4-22)^{2} + (11-24)^{2}$ (17-22) + (19-22) + (21-22) + (23-21) L + (40-22)2 + (49-22)2 + (55-22)2

11 - 1 <= 441+400+324+121+25+9+1+1 + 324 + 729+ 1089

$$S = \sqrt{346.9}$$

$$S = 18.6$$



- 1 Measure of shape
- (iv) measure of position

Histogram
Histogram
H13907
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