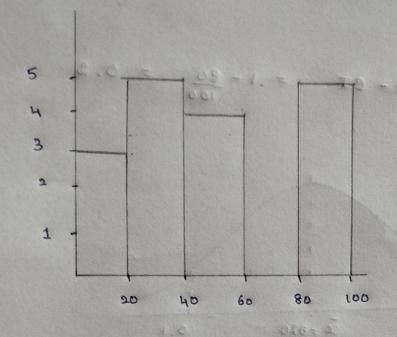
1 Plot a Histogram : and and all marches of marches of marches of marches of

10, 13, 18, 22, 27, 32, 38, 40, 45, 51, 56, 57, 88, 90, 92, 94, 99



Bins = 20

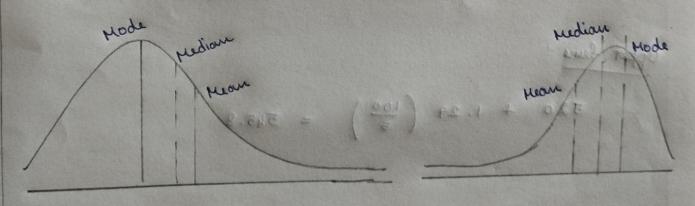
108 = 7.

4.0 = 3

B) In left & right-skewed data, What is the relationship between mean, median & mode? Draw the graph to represent the Same.

Right Skewed data 11

Left Skewed data

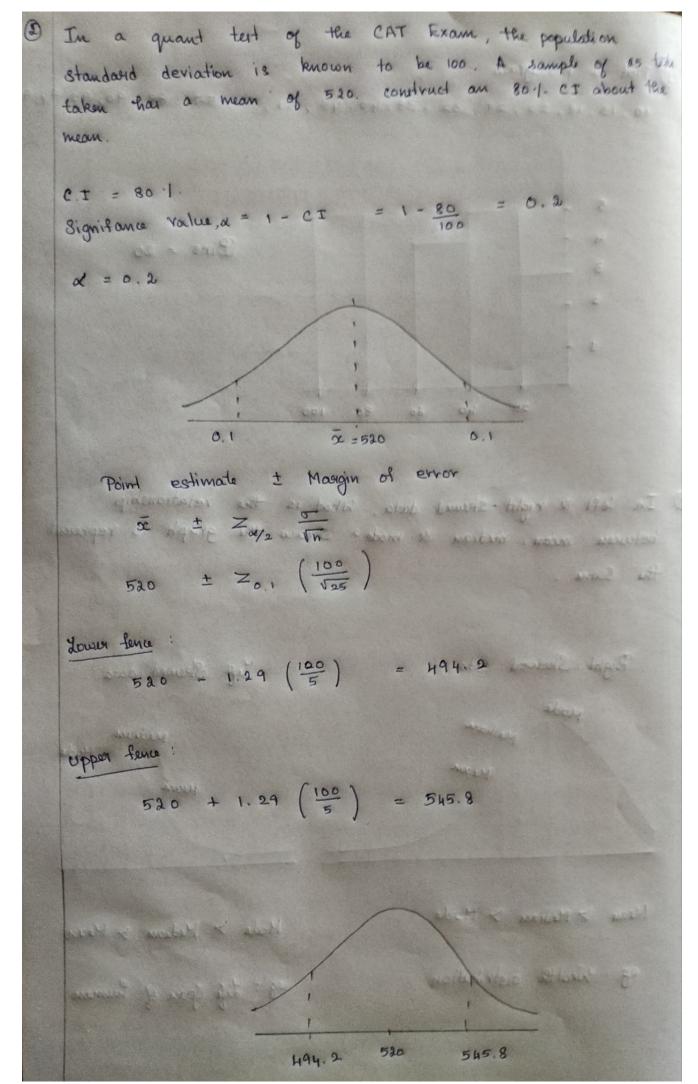


Mean > Median > Mode

Mode > Median > Mean

eg: Wealth distribution

ieg: Life Span of human



A cast believes that the percentage of citizens in city ABC that owns a vehicle is 60% or less. A sales manager duagrees with this. He conducted a hypothesis testing surveying 850 residents & found that 140 residents responded yes to owning a vehicle.

a) state the null & alternate hypothesis.

Support the idea that vehicle owner in ABC city is GH. or less.

Null hypothesis,  $H_0 \Rightarrow P_0 \leq 60^{-1}$ .

Alternate hypothesis,  $H_1 \Rightarrow P_1 \neq 60^{-1}$ .  $P_1 = 170 = 0.68$ 

 $P_0 = 0.6$   $q_0 = 1 - P_0 = 0.4$  C.I = 107  $X = 1 - \frac{10}{100} = 0.9$ 

Z-Test with proportion: P-Po

$$= 0.68 - 0.6 = 2.58$$

$$\sqrt{\frac{0.6 \times 0.4}{2.50}}$$

P. value

Area under curve = 0,99506

1-0.99506 = 0.00494 => < 0.9

P value = 0.00494 + 0.00494 = 0.00988 < 0.9

Accept mull hypothesis

What is the value of 99 percentile? 2,2,3,4,5,5,5,6,7,8,8,8,8,9,9,10, 11, 11, 12. o granus at my belongues shipping on book value = Percentile x n t 1 the liter that well on 100 we object that well wit 99 (20+1) 100 00 = 9. 20,79 99th percentile value is 12