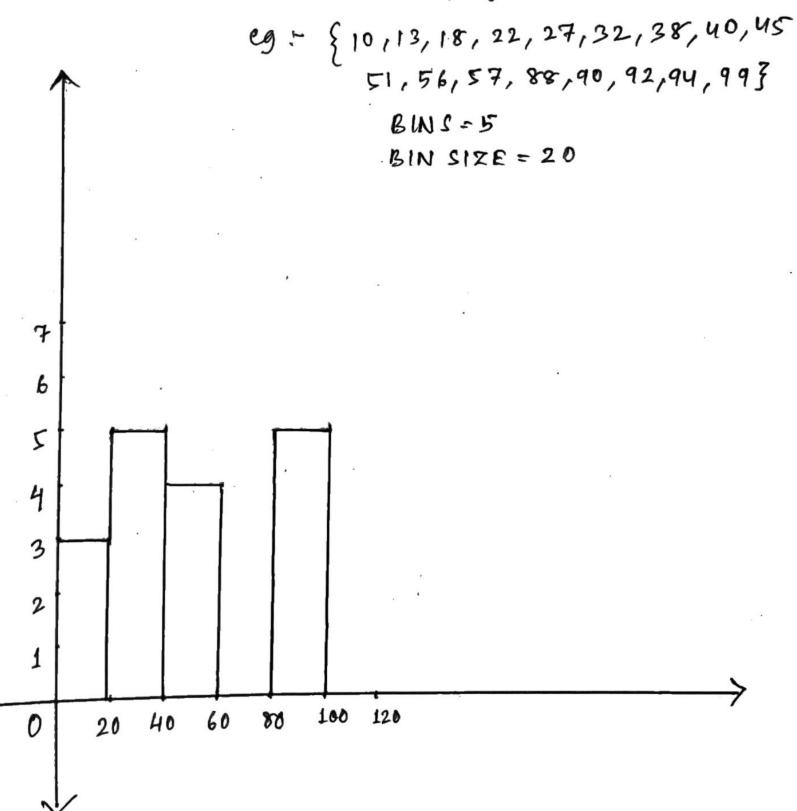
Histogram

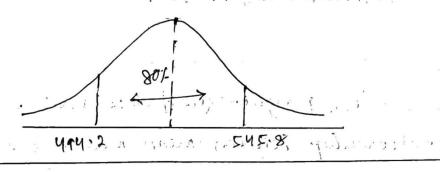


Now,

Lower bence =
$$\bar{\chi}$$
 - $Z_{d/2}$ $\bar{\chi}_1$
= $520 - Z_{0.1} \frac{160}{725}$
= $520 - 1.29 \times 20$

Higher bence =
$$\bar{\chi} + Z_{d/2} \frac{\sigma}{V_R}$$

= $520 + 70.1 \frac{100}{V_{2}}$
= $520 + 1.29 \times 20$
= 545.8



H1:
$$Po < 60\%$$
Here, $N=250$, $X=170$

Test value = -1.29

$$Z\text{-lest} = \frac{\cancel{p} - \cancel{p_0}}{\sqrt{\cancel{p_0} \times \cancel{2}}}$$

$$= \frac{0.68 - 0.6}{\sqrt{0.6 \times 0.9}} = \frac{0.08}{0.0309} = 2.588$$

So, 2.588 is greater than -1.29 and +1.29 reject the null hypothesis.

Qy. value = { 2,2,3,4,5,5,5,6,7,8,8,8,8,8,9,9,10,

value et 99 percentile = $\frac{99}{100}(n+1)$

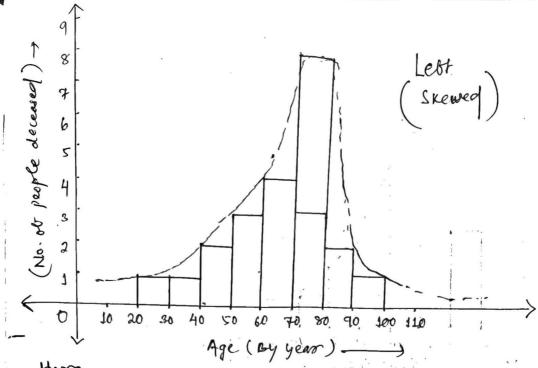
 $= \frac{99 \times 21}{100}$ = 20.79 th index

So, ag percentile will be 12.

Rs. In Lebt & right-skewed data, what is the relationship between mean, median & mode?

enample - Deaths in own surroundings by

ralice = { 25, 32, 42,44, 51, 53,55, 61,63,64,
66, 71,72,73,74,77,77,97,79
82,85,87,92,95,103 }



Here, Mean = 68

$$Miedian = \frac{50}{100} \times 26$$

For right-skewed data

example - disforbution ob scores on any particularly dibbicult gave.

Value(n) = { 9, 15, 18, 12, 21, 23, 25, 25, 25, 26, 29, 39, 39, 39, 39, 43, 47, 48, 55, 57, 63 }

Right (Suewed) 3 2 30 40 50 60 70 80 90 (game score) Mean = 32.47 Here, median = 50 x 24 20 12th Inden mode = 25 roelation = Mean > median > mode

Dorling . Dec.