4. What is the value of 99 percentile?

2, 2, 3, 4, 5, 5, 5, 6, 7, 8, 8, 8, 8, 8, 9, 9, 10, 11, 11, 12

$$99^{th} \text{ percentile} = \frac{\text{percentile}}{100} \times (n+1)$$

$$= \frac{99}{100} \times 21$$

$$= 20.79 \Rightarrow \text{index}$$

∴ The value of 99 percentile is 12

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∴ The value of 99 Percentile is 12

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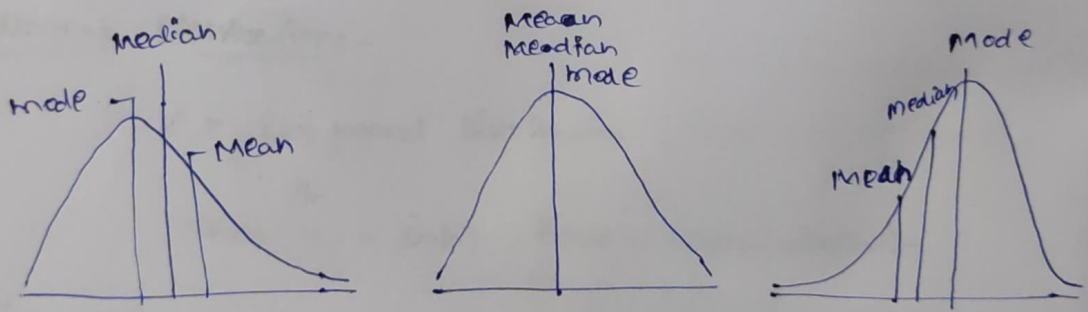
5. In left & right-skewed data, what is the relationship between mean, median and mode? Draw a graph to represent the same.



Right skewed | Normal distribution curve | Left skewed

In Right skewed Distribution: Mean > Median > Mode
Eg:- Wealth distribution

In left skewed Distribution: Mean ≈ Median ≈ Mode
Eg:- Age, weight

In Normal distribution : Mode > Median > Mean
Eg:- lifespan