

Q4. What is the value of the 99 percentile?

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

$$99 \text{ Percentile} = \frac{99}{100} \times (n+1)$$

$$= \frac{99}{100} \times (19+1)$$

$$\Rightarrow \frac{99}{100} \times 20 = \frac{99}{5} = 19.8 = 19^{\text{th}} \text{ index}$$

$$\therefore 19^{\text{th}} \text{ Index} = 12$$