

## Median (Mdn)

Score	F
95-99	1
90-94	1
85-89	4
80-84	3
75-79	6
70-74	(12)
65-69	7
60-64	6
55-59	6
50-54	3
45-49	1
<hr/> N=50	

$$\text{Median} = l + \left( \frac{\frac{N}{2} - f_{cum}}{f_m} \right) \cdot i$$

$$= 69.5 + \left( \frac{25 - 23}{12} \right) \cdot 5 \quad \left\{ \begin{array}{l} \frac{N}{2} = \frac{50}{2} = 25 \\ f_m = 12 \\ f = 23 \\ x = 5 \\ l = 69.5 \end{array} \right.$$

$$= 69.5 + \frac{2}{12} \times 5$$

$$= 69.5 + 0.1666 \times 5$$

$$= 69.5 + 0.833$$

$$= 70.3335$$

70.3335 Ans Mode

$$\begin{aligned} \text{Mode} &= 3 \text{ Median} - 2 \text{ Mean} \\ &= 3 \times 70.34 - 2 \times 69.90 \\ &= 211.02 - 139.80 \\ &= 71.22 \text{ Ans} \end{aligned}$$