Measures of Central Tendency

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Ex → Salary = [10, 11, 10, 11, 10, Nan]

① Avg (Salary) = $\frac{\text{Sum(Salary)}}{\text{Len(Salary)}}$

$= \frac{52}{5}$

$= 10.4$

Ex → Salary = [10, 11, 10, 11, 109, Nan] (109: outlier)

Avg (Salary) = $\frac{\text{Sum(Salary)}}{\text{Len(Salary)}}$

$= \frac{142}{5}$

$= 28.4$

② Median = [10, 10, 11, 11, 100]

$= 11$

Median Formula

if *n* is odd,

$$\text{median} = \left(\frac{n+1}{2}\right)^{th}$$

if *n* is even,

$$\text{median} = \frac{\left(\frac{n}{2}\right)^{th} + \left(\frac{n}{2}+1\right)^{th}}{2}$$

n = number of terms

Ex → gender = [male, female, male, male, female]

③ Mode = Male