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“CLASS 10th”

STATISTICS

FORMULA/CONCEPT

LIST

1. Mean of the grouped data

The direct method: $\bar{x} = \frac{\sum f_i x_i}{\sum f_i}$

The assumed mean method: $\bar{x} = a + \frac{\sum f_i d_i}{\sum f_i}$

The step deviation method: $\bar{x} = a + \left(\frac{\sum f_i u_i}{\sum f_i} \right) \times h$

Note: You are open to use any of the above formula to calculate the mean, the result will be same. Choose the formula which have a smaller number of calculations.

2. Mode of the grouped data

$$\text{Mode} = \ell + \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2} \right) \times h$$

3. Median of the grouped data:

$$\text{Median} = \ell + \left(\frac{\frac{n}{2} - cf}{f} \right) \times h$$

4. Check out complete chapter Statistics class 10th lecture series on YouTube.

All the lectures are created using animation and visual tools, for better learning experience.

The complete series includes following lectures:

1. Introduction to Statistics
2. Mean of Grouped Data
3. How to approach questions on Mean of Grouped Data
4. NCERT Ex 13.1 Statistics
5. Mode of Grouped Data
6. NCERT Ex 13.2 Statistics
7. Median of Grouped Data
8. NCERT Ex 13.3 Statistics
9. Summary- One shot Video- Statistics
10. Formula/concept list (pdf)

STATISTICS CLASS 10 SERIES: <https://creataclasses.com/class-10-maths/class-10-statistics-chapter-13/>

NOTES: