

Descriptive Statistics Formula Review

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Ungrouped Measures

1. Population mean $\mu = \frac{\sum x}{N}$

3. First quartile $\frac{n}{4} + .5$

5. Third quartile $\frac{3n}{4} + .5$

7. x percentiles $\frac{xn}{100} + .5$

9. Weighted mean $\frac{\sum (W_x X_x)}{\sum W_x}$

11. Population standard deviation $\sigma = \sqrt{\frac{\sum x^2}{N} - \left(\frac{\sum x}{N}\right)^2}$

13. Population variance $\sigma^2 = \frac{\sum x^2}{N} - \left(\frac{\sum x}{N}\right)^2$

15. Coefficient of variation C.V. = $\frac{\sigma}{\mu}(100)$

17. Chebyshev's rule $1 - \frac{1}{k^2}$

2. Sample mean $\bar{X} = \frac{\sum x}{n}$

4. Median $\frac{n}{2} + .5$

6. Interquartile range $Q_3 - Q_1$

8. x deciles $\frac{xn}{10} + .5$

10. Average deviation $\frac{\sum |x - \mu|}{N}$

12. Sample standard deviation $S = \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}}$

14. Sample variance $S^2 = \frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}$

16. Range $H - L$

18. Pearson's coefficient of skewness $\frac{3(\bar{x} - \text{md.})}{S}$

Grouped Measures

19. Approximate class width $\frac{\text{range}}{\# \text{ of classes}}$

21. Population mean $\mu = \frac{\sum fx}{N}$

23. Location of the median $\frac{n}{2}$

25. Population standard deviation $\sigma = \sqrt{\frac{\sum f(x - \mu)^2}{N}}$

27. Relative frequency $\frac{\text{class frequency}}{\text{total frequencies}}$

20. Class midpoint $\frac{X_1 + X_2}{2}$

22. Sample mean $\bar{X} = \frac{\sum fx}{n}$

24. Median $L + \frac{\frac{n}{2} - CF_b}{f}(i)$

26. Sample standard deviation $S = \sqrt{\frac{\sum fx^2 - \frac{(\sum fx)^2}{n}}{n-1}}$

28. Sample variance $S^2 = \frac{\sum fx^2 - \frac{(\sum fx)^2}{n}}{n-1}$

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