Statistics Tutors can help with difficult assignments.

Descriptive Statistics Formula Review

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
$$1 - \frac{1}{k^2}$$

Grouped Measures

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

23. Location of the median
$$\frac{1}{2}$$

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

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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
$$s^2 = \frac{\sum x^2 - \frac{\left(\sum x\right)^2}{n}}{n-1}$$

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

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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
$$s = \sqrt{\frac{\sum fx^2 - \frac{\left(\sum fx\right)^2}{n}}{n-1}}$$

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

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