

VIII. Place the number of each formula next to the appropriate description of its function.

Ungrouped Measures

1. Population mean _____
2. Sample mean _____
3. Median _____
4. First quartile _____
5. Third quartile _____
6. x percentile _____
7. Interquartile range _____
8. Population average deviation _____
9. Population standard deviation _____
10. Sample standard deviation _____
11. Population variance _____
12. Sample variance _____
13. Chebyshev's rule _____
14. Coefficient of variation _____
15. Weighted mean _____
16. Pearson's coefficient of skewness _____

Ungrouped Formulas

1.	$\frac{\sum x}{n}$	2.	$\frac{n}{2} + .5$
3.	$\frac{\sum (W_x X_x)}{\sum w_x}$	4.	$\frac{\sum x^2}{N} - \left(\frac{\sum x}{N}\right)^2$
5.	$\sqrt{\frac{\sum x^2}{N} - \left(\frac{\sum x}{N}\right)^2}$	6.	$\frac{\sum x - \mu }{N}$
7.	$\frac{\sum x}{N}$	8.	$\frac{3n}{4} + .5$
9.	$Q_3 - Q_1$	10.	$\frac{\sigma}{\mu}(100)$
11.	$\frac{xn}{100} + .5$	12.	$1 - \frac{1}{k^2}$
13.	$\frac{n}{4} + .5$	14.	$\sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}}$
15.	$\frac{3(\bar{x} - Md.)}{S}$	16.	$\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}$

Grouped Measures

1. Approximate class width _____
2. Class midpoint _____
3. Population mean _____
4. Sample mean _____
5. Location of the median _____
6. Median _____
7. Range _____
8. Sample standard deviation _____
9. Sample variance _____
10. Relative frequency _____

Grouped Formulas

1.	$\frac{n}{2}$	2.	$\frac{\text{class frequency}}{\text{total frequencies}}$
3.	$\frac{\sum fx}{N}$	4.	$\frac{\text{range}}{\# \text{ of classes}}$
5.	$L + \frac{\frac{n}{2} - CF_b}{f}(i)$	6.	$\frac{X_1 + X_2}{2}$
7.	$\sqrt{\frac{\sum fx^2 - \frac{(\sum fx)^2}{n}}{n-1}}$	8.	$\frac{\sum fx^2 - \frac{(\sum fx)^2}{n}}{n-1}$
9.	$\frac{\sum fx}{n}$	10.	$H - L$

See page T 35 of Appendix III for complete solutions to this test.