

Show the formulas neatly and clearly. Make sure you use correct notations.

1. Population mean for raw data.
2. Population mean for frequency distribution (grouped data).
3. Population mean for frequency distribution (grouped interval data).
4. Sample mean for raw data.
5. Sample mean for frequency distribution (grouped data).
6. Sample mean for frequency distribution (grouped interval data).
7. Population variance for raw data.
8. Population variance for frequency distribution (grouped data).
9. Population variance for frequency distribution (grouped interval data).
10. Sample variance for raw data.
11. Sample variance for frequency distribution (grouped data).
12. Sample variance for frequency distribution (grouped interval data).