Mean, Standard Deviation and Coefficient of Variation

Mean, sample and population standard deviation, coefficient of variation, minimum, maximum and range of up to eight values.

Method: Descriptive statistics; sample SD with n − 1 (Bessel)

Input parameters

Unit system: SI

Parameter	Value	Unit
Number of values used	6.0000	
Value 1	31.200	
Value 2	29.800	
Value 3	32.500	
Value 4	30.100	
Value 5	33.000	
Value 6	28.900	
Value 7	0	
Value 8	0	

Calculated results

Parameter	Value	Unit
Mean	30.917	
Sample standard deviation (n − 1)	1.6068	
Population standard deviation (n)	1.4668	
Coefficient of variation s/x̄	5.1971	%
Minimum	28.900	
Maximum	33.000	

Formula and method

$$\bar{x} = \frac{1}{n}\sum x_i, \quad s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$$

Variables

n	Number of values used	-
x_1	Value 1	-
x_2	Value 2	-
x_3	Value 3	-
x_4	Value 4	-
x_5	Value 5	-
x_6	Value 6	-
x_7	Value 7	-
x_8	Value 8	-
$\bar{x}$	Mean	-
s	Sample standard deviation (n − 1)	-
σ	Population standard deviation (n)	-
CV	Coefficient of variation s/x̄	-

x_{min}	Minimum	-
x_{max}	Maximum	-

Method and standards

Descriptive statistics.

Assumptions and limits

- Independent values.
- With a zero mean the coefficient of variation is not defined and is not shown.

References

- Descriptive statistics; sample SD with n − 1 (Bessel)

Report details

Report reference	FCC-FKAZ-WTPN (the same inputs always give the same reference)
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Release checks	2 reference cases of this calculator, computed independently, are checked on every release

Results are for engineering estimation. Verify critical designs against the referenced standards and your own data.

This calculator online

https://calc.firecad.com/general/geometry/statistics-mean-sd

Open this case on calc.firecad.com →

Reopens the calculator with the inputs of this report.