

Standard deviations

To find the standard in Excel,

- Highlight an empty cell which could be below where the mean appears (B24) or any other empty cell.
 - Go to the menu bar and find the summation sign “ Σ ” with the downward arrow next to it.
 - Click on that arrow and then drag the cursor down to “More functions” and release.
 - A box will appear. Within the second box where you can select an option, click on the arrow and drag the cursor down to “Statistical.”
 - In the third place where you can select an option, highlight “STDEV.S” and then click on OK.
 - Another box will appear which is labeled “Function Argument.” In that box, there is another place labeled “Number 1.” In this box, just type in B2:B21.
 - Then click on OK and the standard deviation will appear in cell B24. My standard deviation is 1.04853.

The screenshot shows a Microsoft Excel spreadsheet titled "ERA 244 Module 4 Data Set w stats.xlsx". The ribbon menu is visible at the top, showing tabs for File, Home, Insert, Page Layout, Formulas, Data, Review, and View. The Home tab is selected. The formula bar shows the cell reference B23. The ribbon also includes a Font section with Calibri, 11, and bold/italic/underline buttons; an Alignment section with Wrap Text, Merge & Center, and Horizontal/Vertical dropdowns; a Number section with currency (\$), percentage (%), and scientific notation (0.00); a Styles section with Conditional Formatting, Format as Table, Cell Styles, and a dropdown for more formats; and a Cells section with Insert, Delete, Format, and Cells dropdown. A context menu is open over the data range A1:P23, showing options like AutoSum (Sum, Average, Count Numbers, Max, Min, More Functions...), Paste, Cut, Copy, Format Painter, and Clipboard. The main worksheet area displays a dataset with 23 rows and 16 columns. Column A contains row numbers from 1 to 23. Columns B through P contain various numerical values and categorical labels such as "Mono", "East Indian", "Chumash", and "Decline to state". Row 10 spans across multiple columns with the label "10 East Indian". Row 20 spans across multiple columns with the label "10 Decline to state".

Microsoft Excel

File Home Insert Page Layout Formulas Data Review View

B23

ERA 244 Module 4 Data Set w stats.xlsx

ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Ethnicity	Specify	MarStat	FathEd	MothEd	FirstGen	EligFinAid
1	1	3	4	4	3	4	4	2	5	2	1	1	1	1
2	2	2	3	3	4	3	3	1	7 Mono	1	3	2	1	1
3	3	4	4	5	3	5	5	8		1	5	4	2	2
4	4	2	4	2	5	3	3	3		1	3	2	1	1
5	5	4	5	4	4	5	5	5		2	4	5	2	1
6	6	3	2	7	4	5	3	1		1	4	4	2	1
7	7	4	5	8	3	4	4			1	5	5	2	2
8	8	3	4	9	4	4	4			1	6	4	2	2
9	9	4	4	10	5	5	4			1	3	3	1	1
11	10	5	5	11	2	3	4			2	2	1	1	
12	12	3	3	13	1	2	3			1	4	3	1	
13	13	1	2	14	4	4	5			1	1	3	1	
14	14	4	4	15	4	4	5			2	4	5	2	
15	15	3	4	16	3	4	5			1	2	3	1	
16	16	2	2	17	2	2	1			1	4	5	2	
17	17	2	2	18	2	2	1			1	2	3	1	
18	18	2	2	19	2	2	2			1		3	1	
20	19			21	20	4	4			2		1	1	
21	20	4	4	22						2	3	2	1	
23														

Insert Function

Search for a function:

Type a brief description of what you want to do and then click Go

Or select a category: Statistical

Select a function:

AVERAGE, AVERAGEA, AVERAGEIF, AVERAGEIFS, BETADIST, BETAINV, AVEDEV, AVEDEV(number1,number2...)

AVEDEV(number1,number2...)

Returns the average of the absolute deviations of data points from their mean. Arguments can be numbers or names, arrays, or references that contain numbers.

Help on this function

OK Cancel

Input sheet data set N means standard deviations frequencies percentages graphs Indep t-test

ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Ethnicity	Specify	MarStat	FathEd	MothEd	FirstGen	EligFinAid
1	1	3	4	4	3	4	4	2	5	2	1	1	1	1
2	2	2	3	3	4	3	3	1	7 Mono	1	3	2	1	1
3	3	4	4	5	3	5	5	8		1	5	4	2	2
4	4	2	4	2	5	3	3	3		1	3	2	1	1
5	5	4	5	4	4	5	5	5		2	4	5	2	1
6	6	3	2	7	4	5	3	1		1	4	4	2	1
7	7	4	5	8	3	4	4			1	5	5	2	
8	8	3	4	9	4	4	4			1	6	4	2	
9	9	4	4	10	5	5	4			1	3	3	1	
11	10	5	5	12	2	3	4			2	2	1	1	
12	12	3	3	13	1	2	3			1	4	3	1	
13	13	1	2	14	4	4	5			1	1	3	1	
14	14	4	4	15	4	4	5			2	4	5	2	
15	15	3	4	16	3	4	5			1	2	3	1	
16	16	2	2	17	2	2	1			1	4	5	2	
17	17	2	2	18	2	2	1			1	2	3	1	
18	18	2	2	19	2	2	2			1		3	1	
20	19			21	20	4	4			2	3	2	1	
21	20	4	4	22						2	3	2	1	
23														

Insert Function

Search for a function:

Type a brief description of what you want to do and then click Go

Or select a category: Statistical

Select a function:

SKEW, SLOPE, SMALL, STANDARDIZE, STDEV, STDEV.S, STDEVA

STDEV.S(number1,number2...)

Estimates standard deviation based on a sample (ignores logical values and text in the sample).

Help on this function

OK Cancel

Input sheet data set N means standard deviations frequencies percentages graphs Indep t-test

Microsoft Excel

File Home Insert Page Layout Formulas Data Review View

B23

ERA 244 Module 4 Data Set w stats.xlsx

ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Ethnicity	Specify	MarStat	FathEd	MothEd	FirstGen	EligFinAid
1	1	3	4	4	3	4	4	2	5	2	1	1	1	1
2	2	2	3	3	4	3	3	1	7 Mono	1	3			
3	3	4	4	5	3	5	5	8		1	5			
4	4	2	4	2	5	3	3	3		1	3			
5	5	4	5	4	4	5	5	5		2	4			
6	6	3	2	7	4	5	3	1		1	4			
7	7	4	5	8	3	4	4			1	5			
8	8	3	4	9	4	4	4			1	6			
9	9	4	4	10	5	5	4			1	3			
11	10	5		12	11	2	3			2	2			
13	12	3		14	13	1	3			1	4			
15	14	4		16	15	4	4			2	4			
17	16	3		18	17	2	2			1	2			
19	18	2		20	19	2	2			1				
21	20	4		22						2	3			
23														

STDEV.S

=STDEV.S(B2:B21)

Function Arguments

STDEV.S

Number1: B2:B21 = {3;2;4;2;4;3;4;3;4;5;2;3;1;4;4;3;2;2;0}

Number2: = number

= 1.048530021

Estimates standard deviation based on a sample (ignores logical values and text in the sample).

Number1: number1,number2,... are 1 to 255 numbers corresponding to a sample of a population and can be numbers or references that contain numbers.

Formula result = 1.048530021

Help on this function

OK Cancel

Input sheet data set N means standard deviations frequencies percentages graphs Indep t-test