STATISTICS CALCULATORS FOR MATH 105



Statistics Calculators for Math 105

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This text was compiled on 03/18/2025



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Licensing

A detailed breakdown of this resource's licensing can be found in **Back Matter/Detailed Licensing**.





1: Scientific Calculator powered by DESMOS

Scientific Calculator powered by DESMOS

This is a scientific calculator powered by DESMOS, and the same calculator is also available at the bottom of each statistics calculator. Please report error to Dr. Jessica Kuang at jkuangATvcccd.edu.

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2: One Variable Statistics

One Variable Statistics

This calculator computes the mean, standard deviation, and 5-number summary from a one-variable data set. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here.

Input

Type in the values from the data set separated by commas (for example, 2,4,5,8,11,2), choose between population standard deviation and sample standard deviation and click Calculate.

Population Standard Deviation

 \bigcirc Sample Standard Deviation

Calculate

Output

Minimu	n:		
Q1:			
Median:			
Q3:			
Maximu	m.		
Standard	Deviation:		
Variance	:		
Interqua	rtile Range (IQR):	

 (\mathbf{i})



	Sample Size:	
Scientific Calculator		

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3: Mean and Standard Deviation from a Frequency Table

=	
Mean and Standard Deviati	on from a Frequency Table
This calculator computes me table. Please report any error	ean, standard deviation, and 5-number summary from a frequency or probability distribution to Dr. Jessica Kuang at jkuangATvcccd.edu.
To learn how to use this calcu	lator, please watch a short video here.
Input	
Type in the data values and fr	equencies (in whole numbers or decimals) below.
data value	
frequency	
Population Standard De	eviation
Sample Standard Devia	tion
Calculate	
Output	
	Mean
	Standard Deviation:
	Five Point Summary:
	Sample Size:
Scientific Calculator	

3: Mean and Standard Deviation from a Frequency Table is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



4: Binomial Probability Distribution

Binomial Probability Distribution

This calculator computes $P(a \le x \le b)$, where x is a binomial random variable, and a and b are the lower bound and the upper bound for x respectively. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, watch a short video here.

Input

Enter the lower bound and the upper bound for the number of successes, the number of trials (*n*), and the probability of success (p), and then hit Calculate.

Lower Bound:	Upper Bound:	<i>n</i> :	p (enter a decimal):
Calculate			
Output			
Probability:			
Scientific Calculator			

4: Binomial Probability Distribution is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



5: Normal Probability Distribution

Normal Probability Distr	ribution				
This calculator computes $P(a < x < b)$, where x is a normal random variable, and a and b are the lower bound and upper bound for x. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.					
To learn how to use this o	calculator, please watch a short video h	ere.			
Input					
	Mean:	Standard Deviation:			
Output					
(enter integers or decimal	ls only)	or a boundary value			
Lower Bound:	Upper Bound:	Probability:			
Calculate					
Error Message:					
Scientific Calculator					

5: Normal Probability Distribution is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



6: Linear Correlation and Regression

Linear Correlation and Regression

This calculator creates a scatter plot, the regression equation, r and r^2 , and performs the hypothesis test for a nonzero correlation. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here.

1	1	p	ι	ľ	t

Put the independent variable's data separated by commas in the first row and the dependent variable's data separated by commas in the second row, then click Plot Points and Calculate.

Explanatory/Independ	ent	Variable		(x):
Response/Dependent		Variable	(y	/):
Plot Points and Ca	alculate		Reset	
<mark>Output</mark>				
Regression Equation:			<i>r</i> :	
	• Hypothesis: $H_0: \rho = 0, H_1: \rho \neq 0$ • Hypothesis: $H_0: \rho = 0, H_1: \rho < 0$ • Hypothesis: $H_0: \rho = 0, H_1: \rho > 0$		Test Statistic (<i>t</i>):	
Scientific Calculat	or			



6: Linear Correlation and Regression is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



7: Confidence Interval for a Population Proportion

Confidence Interval for a Population Proportion

This calculator creates confidence intervals for a population proportion given statistics. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here.

Input

Fill in the sample size (n), the number of successes (x), and the confidence level (CL), then hit Calculate. Write the confidence level as a decimal. For example, for a 95% confidence level, enter 0.95.

Sample Size (<i>n</i>):	Number of Successes (<i>X</i>):	Confidence Level (enter a decimal):
Calculate		
Output		
Point Estimate (\hat{p}):	Lower Bound:	Upper Bound:
Scientific Calculator		

7: Confidence Interval for a Population Proportion is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



8: Sample Size to Estimate a Population Proportion

Sample Size to Estimate a Population Propo
--

This calculator computes the sample size needed to estimate a population proportion. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here.

Input

Fill in the estimation for P (or choose no estimation for P), the error bound and the confidence level, then hit "Calculate " and the needed sample size will be calculated for you.

0	No Estimate for p Have Estimate for p	Estimate for p (enter a decimal):	Error Bound (enter a decimal):	Confidence Level (enter a decimal):
Ca	lculate			
San	nple Size (n):			
Sc	ientific Calculator			
Estima	tte for p:			

8: Sample Size to Estimate a Population Proportion is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



9: Confidence Interval for a Population Mean Given Statistics

	•		
Confidence Interval for a Pop	ulation Mean Given Statistics	S	
This calculator creates a confide at jkuangATvcccd.edu.	ence interval for a population m	ean given statistics. Please repo	rt the error to Dr. Jessica Kuang
To learn how to use this calcula	tor, please watch a <mark>short video</mark> h	ere.	
Input			
Fill in the sample size (n) , the Calculate. Write the confidence	sample mean (\bar{x}) , the sample st e level as a decimal. For example	andard deviation (<i>s</i>), and the co le, for a 95% confidence level, e	onfidence level (CL), then click nter 0.95.
Sample Size (<i>n</i>):	Sample Mean (\bar{x}):	Standard Deviation (<i>s</i>):	Confidence Level (enter a
			decimal):
Calculate			
Output			
Lowe	r Bound:	Upper Bound:	
Scientific Calculator			

9: Confidence Interval for a Population Mean Given Statistics is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



10: Confidence Interval for a Population Mean Given Data

This calculator creates a confidence interval for a population mean given a set of data. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here.

Input

Type in the values from the data set separated by commas, for example, 2,4,5,8,11,2. Then type in the confidence level (CL) and hit Calculate. Write the confidence level as a decimal. For example, for a 95% confidence level, enter 0.95.

D	at	a:

Dutu.			
	Confidence Level (enter a decimal):		
Calculate			
Output			
Sample Mean (\bar{x}) :	Standard Deviation (<i>s</i>):	Lower Bound:	Upper Bound:
Scientific Calculator			

10: Confidence Interval for a Population Mean Given Data is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



11: Sample Size to Estimate a Population Mean

Sample Size to Estimate a Po	pulation Mean		
This calculator calculates the sau jkuangATvcccd.edu.	mple size needed to estimate a p	population mean. Please report t	he error to Dr. Jessica Kuang at
To learn how to use this calculat	or, please watch a short video h	ere.	
Input			
Fill in the population standard d	eviation (σ), the error bound (E), and the confidence level (CL)). Write the confidence level as
a decimal. For example, for a 9	95% confidence level, enter 0.9	95 for CL. Then hit Calculate	and assuming the population is
normally distributed, the necessa	ary sample size will be shown.		
Standard Deviation (σ) :	Error Bound (E, enter a	Confidence Level (enter a	
	decimal):	decimal):	
Output			
Calculate			
Sample Size (n):			
Scientific Calculator			

11: Sample Size to Estimate a Population Mean is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



12: Hypothesis Test for a Population Proportion

Hypothesis rescrol a Population Proportion		
This calculator performs the hypothesis test for a population proportion given statistics. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.		
To learn how to use this calculator, please watch a short video	here.	
Input		
Fill in the sample size, n, the number of successes, x, the hype	othesized population proportion p_0 , and indicate if the test is left	
tailed, <, right tailed, >, or two tailed, \neq . Then hit "Calculate"	and the test statistic and p-Value will be calculated for you.	
Sample Size (n):	Number of Success (x):	
Choose the test	Hypothesized Dopulation Draportion (m.)	
 ● < ○ > 	$(p_0).$	
○ ≠		
Calculate		
Output		
Test Statistics (z)	p-value:	
Scientific Calculator		
Back to the Calculator Menu		

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13: Hypothesis Test for a Population Mean Given Statistics

71 1			
Hypothesis Test for a Population Mean	given Statistics		
This calculator performs the hypothesis test for a population mean given statistics. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.			
To learn how to use this calculator, please	watch a <mark>short video</mark> h	iere.	
Input Select if the population standard deviation	σ is known or unk	own Thon fill in the	sample size (n) the sample mean (\bar{n}) the
standard deviation (<i>s</i>), the hypothes	ized population	1 mean μ_0 , and	indicate if the test is left tailed
(<), right taile (>), or two tailed	d (\neq), then click	Calculate.	
Standard Deviation (<i>s</i>)		Sample Size (n) :	
	Choose	the test	
Sample Mean (<i>x</i>):		<	Hypothesized Population Mean (μ_0):
	Ŏ	ý ≠	
Calculate			
Output			
Test Statistic (t)]	p-value	
Scientific Calculator			

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14: Hypothesis Test for a Population Mean Given Data

Hypothesis Test for a Population Mean With Data

This calculator performs the hypothesis test for a population mean given statistics. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here (coming up).

Input

Type in the values from the data set separated by commas, for example, 2,4,5,8,11,2. Then choose the left, right, or two-tailed test and the hypothesized mean. Finally hit Calculate and the sample mean, then the test statistic and the p-value will be shown.

Data:

Choose the test \bigcirc < \bigcirc > \bigcirc \neq		
Hypothesized Population Mean (μ_0):		
Calculate		
Output		
Sample Mean (\bar{x}) : Standard Deviation (s) :	Test Statistics (t)	p-value:
Scientific Calculator		

14: Hypothesis Test for a Population Mean Given Data is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



15: Two Independent Proportions Comparison

Two Independent Proportions Comparison

This calculator performs the hypothesis test and also constructs a confidence interval for p_1-p_2 given statistics. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here.

Input

Enter the sample size and the number of successes for each sample, choose the test, and enter the confidence level then hit Calculate. The test statistic, p-value, and the boundaries of the confidence interval will be shown. Be sure to enter the confidence level as a decimal, e.g., enter 95% as 0.95.

	Sample Size (<i>N</i>)	Number of Successes (<i>X</i>)
First Sample		
	choose a test	
Second Sample		
Confidence Level (enter a decimal): .95		
Calculate		
Output		
Test Statistics (z): p-value:	Lower Bound:	Upper Bound:
Scientific Calculator		

15: Two Independent Proportions Comparison is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



16: Two Independent Sample Means Comparison Given Statistics

Two Independent Samples with statistics Calculator

This calculator performs the hypothesis test and also constructs a confidence interval for $\mu_1 - \mu_2$ for two population means given statistics. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here (coming up).

Input

Enter the statistics, the tail type, and the confidence level and hit Calculate and the test statistic, p-value, and the boundaries for the confidence interval. Be sure to enter the confidence level as a decimal, e.g., 95% should be entered as 0.95.

	Sample Size	Sample Mean	Sample Standard Deviation
First Sample			
	choose a test \bigcirc < \bigcirc > \bigcirc \neq		
Second Sample			
Confidence Le .95 Calculate	evel (Enter a Decimal):		
Test Statistics (t):	p-value:	Lower Bound:	Upper Bound:
Scientific Calculator Back to the Calculator Menu			

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17: Two Independent Sample Means Comparison Given Data

Two Independent Samples Means Comparis	on Given Data			
This calculator performs the hypothesis test and	also constructs a confidence interval for μ	$_1-\mu_2$ given data. Please report the error to 1	Dr. Jessica Kuang at jkuangATvcccd.edu.	
To learn how to use this calculator, please watch	a s <mark>hort video here (coming up).</mark>			
Input				
Type in the values from the two data sets separa	ted by commas, for example, 2,4,5,8,11,2	. Enter the statistics, the tail type, and the o	confidence level then hit Calculate. The test statistic, p-value,	
and the boundaries for the confidence interval. I	Be sure to enter the confidence level as a d	ecimal, e.g., 95% should be entered as 0.95		
Data				
		-1		
		choose a test		
		0 >		
		○ ≠		
Data				
	Confidence Level (enter a decimal):		
	0.95			
	Calculate			
	Culculat			
Output				
Test Statistics (t):	p-value	Lower bound	Upper Bound	
Scientific Calculator				

17: Two Independent Sample Means Comparison Given Data is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.





18: Two Dependent Sample Means Comparison Given Data

Two dependent Samples Means Comparison Given data

This calculator performs a hypothesis test and creates a confidence interval for two dependent sample means given the data sets. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here (coming up).

Input

Data1:			
		choose a test \bigcirc < \bigcirc > \bigcirc \neq	
lata2:			
	Confid 0.95	ence Level (enter a decimal):	
Calculate			
est Statistics (t):	p-value:	Lower Bound:	Upper Bound:

18: Two Dependent Sample Means Comparison Given Data is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.





19: Chi-Square Test for Goodness of Fit

Chi-Square Test for Goodness of Fit	
This calculator performs the Chi-Square test for goodnes jkuangATvcccd.edu.	s of fit. Please report the error to Dr. Jessica Kuang at
To learn how to use this calculator, please watch a short video h	ere.
Input	
Type in the values from the observed and expected sets separa the test statistic and the p-value will be shown.	ted by commas, for example, 2,4,5,8,11,2. Then hit Calculate,
Observed:	
Expected:	
Output	
Calculate	
Test Statistics (χ^2):	p-value:
Scientific Calculator	

19: Chi-Square Test for Goodness of Fit is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.





20: Chi-Square Test for Independence

Under Reconstruction χ^2 test for independence calculator

Enter in the observed values and hit Calculate and the χ^2 test statistic and the p-value will be calculated for you. Leave blank the last rows and columns that don't have data values.

	А	В	С	D
First				
Second				
Third				
Fourth				
Fifth				
Sixth				
Seventh				
Eighth				
Ninth				
Tenth				
Calculate				
χ^2 :		p		
Scientific Calculator]			
Back to the Calculator Me	enu			

20: Chi-Square Test for Independence is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.



21: One-Way ANOVA

One-Way ANOVA

This calculator performs the one-way ANOVA. Please report the error to Dr. Jessica Kuang at jkuangATvcccd.edu.

To learn how to use this calculator, please watch a short video here (coming up).

Input

Enter the data values separated by commas, for example: 3,4,7,9,-2,8. Then hit Calculate and the F-statistic and the p-value will be generated for you. Leave the extra rows blank if not needed.

Data1:		
Data2:		
Data3:		
Data4:		
Data5:		
Data6:		
Data7:		
Data8:		
	Test Statistics (F):	p-value:
Calculate		
Scientific Calculator		

21: One-Way ANOVA is shared under a CC BY license and was authored, remixed, and/or curated by LibreTexts.





22: Graveyard

This is my graveyard, please don't use any calculators beyond this point. ~Jessica Kuang

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22.1: Mean and Standard Deviation for Grouped Frequency Tables Calculator

Mean and Standard Deviation for gro	uped frequency Tables Calculator
Type in the midpoints and frequencies b frequency.	below. Put the midpoints in increasing order and do not include any values with zero
Midpoints	
Frequencies	
 Population Standard Deviation Sample Standard Deviation Mean	
Standard Deviation	
Five Point Summary	
Sample Size	
Calculate Scientific Calculator Back to the Calculator Menu	

This page titled 22.1: Mean and Standard Deviation for Grouped Frequency Tables Calculator is shared under a CC BY license and was authored, remixed, and/or curated by Larry Green.



22.2: Binomial Distribution Calculator

Binomial Distribution calculator Enter the lower bound for the number of successes (Low), the upper bound for the number of successes (High), the number of trials (Trials), and the probability of success (P), and then hit Calculate.					
Low:	High:	Trials:	P:		
Calculate					
Scientific Calculator Back to the Calculator Menu					

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22.3: One Variable Statistics Calculator

One Variable statistics Calculator		
Type in the values from the data set se	parated by commas, for example, 2,4,5,8,11,2, and click Calculate.	
 Population Standard Deviation Sample Standard Deviation 		
Calculate		
	Mean	
	Minimum	
	Q1	
	Median	
	Q3	
	Maximum	
	Standard Deviation	
	Variance	
	IQR	
	Sample Size	

Scientific Calculator

Back to the Calculator Menu

This page titled 22.3: One Variable Statistics Calculator is shared under a CC BY license and was authored, remixed, and/or curated by Larry Green.



22.4: Normal Probability Calculator

Online Normal Probability Calculator Fill in all of the values except one below and hit Calculate then the last value will be given to you.						
Low:	High:	Mean:	Std. Dev.:	p=		
Scientific Calculator						

Back to the Calculator Menu

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22.5: Hypothesis Test for a Population Mean With Data Calculator

Hypothesis Test for a Population Mean With Data Calculator					
Type in the values from the data set separated by commas, for example, 2,4,5,8,11,2. Then type in the population standard deviation σ if it is known or leave it blank if it is not known. Then choose a left, right or two tailed test, and the hypothesized mean. Finally hit Calculate and the sample mean, the test statistic and the p-value will be shown.					
Data:					
σ:	 > ≠ 	μ ₀ :	Calculate z		
Scientific Calculator Back to the Calculator Menu					

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22.6: Hypothesis Test and Confidence Interval Calculator for Two Dependent Samples

Two dependent Samples with data Calculator

Type in the values from the t confidence level and hit Calcu bound, UB, and the data set of a CL of 0.95.	wo data set ilate and th the differe	s separated by comn e test statistic, t, the j nces will be shown.	nas, for example, 2,4 p-value, p, the confid Be sure to enter the c	.,5,8,11,2. lence interv confidence	Then enter the tail type and the val's lower bound, LB, the upper level as a decimal, e.g., 95% has
Data1:					
Data2:					
		_			
		CL:			
$0 > 0 \neq 0$				Calcul	ate
$\bigcirc \neq$					
t:	p		LB		UB
Scientific Calculator					
Back to the Calculator Menu					

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22.7: Full Regression Analysis Calculator

Full regression analysis Calculator

Create a scatter plot, the regression equation, r and r^2 , and perform the hypothesis test for a nonzero correlation below by entering a point, click Plot Points and then continue until you are done. You can also input all your data at once by putting the first variable's data separated by commas in the first row and the second variable's data separated by commas in the second row and then clicking on plot points.

),)	Plot Points]		New Plot	
x: y: 							
Regression Equation					r:		r^2 :
	• Hypothesis: H_0 • Hypothesis: H_0 • Hypothesis: H_0	$: ho=0,H_a: ho$ $: ho=0,H_a: ho$ $: ho=0,H_a: ho$	$\neq 0$ < 0 > 0		t =		p - v a 1 u e =
Scientific Calculate	ator or Menu						

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22.8: Sample Size for a Mean Calculator

Sample size Calculator Fill in the population standard deviation (σ), the error bound (E), and the confidence level (CL). Write the confidence level as						
a decimal. For example, for a 95% of normally distributed, the necessary sa	confidence level, enter 0.95 for CI mple size will be shown.	2. Then hit Calculate and a	assuming the population is			
σ: E:	CL:	Calculate n	n:			
Scientific Calculator						
Back to the Calculator Menu						

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22.9: Needed Sample Size for a Confidence Interval for a Population Proportion Calculator

Sample Size Calculator						
Fill in the error bound (E) and the confidence level (CL) written as a decimal, for example a 95% confidence level is 0.95. If there is an estimate for the population proportion, check the "Have Estimate for p" radio button and then fill in the estimate in the p box that appears. Then hit "Calculate n" and the needed sample size will be calculated for you.						
No Estimate for p	 Have Estimate for p 	Estimate for p:	E:	CL:	Calculate n	n:
Scientific Calculator Back to the Calculator Menu						
Estimate for p:						

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22.10: Two Independent Samples With Data Hypothesis Test and Confidence Interval Calculator

Two Independent Samples w	Ath data C	alculator			
Type in the values from the two data sets separated by commas, for example, 2,4,5,8,11,2. Then enter the tail type and the confidence level and hit Calculate and the test statistic, t, the p-value, p, the confidence interval's lower bound, LB, and the upper bound, UB will be shown. Be sure to enter the confidence level as a decimal, e.g., 95% has a CL of 0.95.					
Data1:					
Data2:					
• <					
○ >		CL:		Calculate	
○ ≠				Calculate	
t:	p		LB	UB	
Scientific Calculator					
Back to the Calculator Menu					

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22.11: Hypothesis Test and Confidence Interval Calculator for Two Dependent Samples

Two dependent Samples with data Calculator

Type in the values from the t confidence level and hit Calcu bound, UB, and the data set of a CL of 0.95.	wo data set ilate and th the differe	s separated by comn e test statistic, t, the j nces will be shown.	nas, for example, 2,4 p-value, p, the confid Be sure to enter the c	.,5,8,11,2. lence interv confidence	Then enter the tail type and the val's lower bound, LB, the upper level as a decimal, e.g., 95% has
Data1:					
Data2:					
		_			
		CL:			
$0 > 0 \neq 0$				Calcul	ate
$\bigcirc \neq$					
t:	p		LB		UB
Scientific Calculator					
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22.12: Chi-Square Goodness of Fit Test Calculator

χ^2 Goodness of fit Calculator
Type in the values from the observed and expected sets separated by commas, for example, 2,4,5,8,11,2. Then hit Calculate and the test statistic, χ^2 , and the p-value, p, will be shown.
Observed:
Expected:
Calculate
χ ² :p
Scientific Calculator
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22.13: Chi-Square Test For Homogeneity Calculator

χ^2 test for Homogeneity calculator

Enter in the observed values for each of the two samples A and B and hit Calculate and the χ^2 test statistic and the p-value will be calculated for you. Leave blank the last rows that don't have data values.

Α	В
Calculate	
χ ² :	p
Scientific Calculator Back to the Calculator Menu	

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22.14: Chi-Square Test For Independence Calculator

χ^2 test for independence calculator

Enter in the observed values and hit Calculate and the χ^2 test statistic and the p-value will be calculated for you. Leave blank the last rows and columns that don't have data values.

	А	В	С	D
First				
Second				
Third				
Fourth				
Fifth				
Sixth				
Seventh				
Eighth				
Ninth				
Tenth				
Calculate				
χ^2 :		p		
Scientific Calculator Back to the Calculator Me	enu			

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22.15: ANOVA Calculator

ANOVA Calculator					
Enter the data values separated by commas, will be generated for you.	for example:	3,4,7,9,-2,8.	Then hit Ca	alculate and the F-statistic and t	he p-value
Data1:]
Data2:					
Data3:					
Data4:					
Data5:					
Data6:					
Data7:					
Data8:					
Calculate	7:			p	
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22.16: Hypothesis Test and Confidence Interval Calculator- Difference Between Population Proportions

Two Proportions Calculator

Enter in the sample sizes and number of successes for each sample, the tail type and the confidence level and hit Calculate and the test statistic, t, the p-value, p, the confidence interval's lower bound, LB, and the upper bound, UB will be shown. Be sure to enter the confidence level as a decimal, e.g., 95% has a CL of 0.95.

	Sample Size	Number of Successes
First Sample		
Second Sample		
	CI.	
○ ≠	Calculate	
z: p:	LB:	UB:
Scientific Calculator		
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22.1: Mean and Standard Deviation for Grouped Frequency Tables Calculator

Mean and Standard Deviation for gro	uped frequency Tables Calculator
Type in the midpoints and frequencies b frequency.	below. Put the midpoints in increasing order and do not include any values with zero
Midpoints	
Frequencies	
 Population Standard Deviation Sample Standard Deviation Mean	
Standard Deviation	
Five Point Summary	
Sample Size	
Calculate Scientific Calculator Back to the Calculator Menu	

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22.2: Binomial Distribution Calculator

Binomial Distribution calculator Enter the lower bound for the number of successes (Low), the upper bound for the number of successes (High), the number of trials (Trials), and the probability of success (P), and then hit Calculate.					
Low: High: Trials: P:					
Calculate					
Scientific Calculator Back to the Calculator Menu					

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22.3: One Variable Statistics Calculator

One Variable statistics Calculator		
Type in the values from the data set se	parated by commas, for example, 2,4,5,8,11,2, and click Calculate.	
 Population Standard Deviation Sample Standard Deviation 		
Calculate		
	Mean	
	Minimum	
	Q1	
	Median	
	Q3	
	Maximum	
	Standard Deviation	
	Variance	
	IQR	
	Sample Size	

Scientific Calculator

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22.4: Normal Probability Calculator

Online Normal Probability Calculator Fill in all of the values except one below and hit Calculate then the last value will be given to you.						
Low:	Low: High: Mean: Std. Dev.: p= Calculate					
Scientific Calculator						

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22.5: Hypothesis Test for a Population Mean With Data Calculator

Hypothesis Test for a Population Mean With Data Calculator					
Type in the values from the data set separated by commas, for example, 2,4,5,8,11,2. Then type in the population standard deviation σ if it is known or leave it blank if it is not known. Then choose a left, right or two tailed test, and the hypothesized mean. Finally hit Calculate and the sample mean, the test statistic and the p-value will be shown.					
Data:					
σ:	 > ≠ 	μ ₀ :	Calculate z		
Scientific Calculator Back to the Calculator Menu					

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22.6: Hypothesis Test and Confidence Interval Calculator for Two Dependent Samples

Two dependent Samples with data Calculator

Type in the values from the t confidence level and hit Calcu bound, UB, and the data set of a CL of 0.95.	wo data set ilate and th the differe	s separated by comn e test statistic, t, the j nces will be shown.	nas, for example, 2,4 p-value, p, the confid Be sure to enter the c	.,5,8,11,2. lence interv confidence	Then enter the tail type and the val's lower bound, LB, the upper level as a decimal, e.g., 95% has
Data1:					
Data2:					
		_			
		CL:			
$0 > 0 \neq 0$				Calcul	ate
$\bigcirc \neq$					
t:	p		LB		UB
Scientific Calculator					
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22.7: Full Regression Analysis Calculator

Full regression analysis Calculator

Create a scatter plot, the regression equation, r and r^2 , and perform the hypothesis test for a nonzero correlation below by entering a point, click Plot Points and then continue until you are done. You can also input all your data at once by putting the first variable's data separated by commas in the first row and the second variable's data separated by commas in the second row and then clicking on plot points.

(),)	Plot Points]		New Plot	
x: 							
Regression Equation					r.		r^2 :
	 Hypothesis: H_0 Hypothesis: H_0 Hypothesis: H_0 	$: ho=0,H_a: ho$ $: ho=0,H_a: ho$ $: ho=0,H_a: ho$	$\neq 0$ < 0 > 0		t =		p - v a 1 u e =
Scientific Calculate	ator or Menu						

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22.8: Sample Size for a Mean Calculator

Sample size Calculator Fill in the population standard deviation (σ), the error bound (E), and the confidence level (CL). Write the confidence level as							
a decimal. For example, for a 95% confidence level, enter 0.95 for CL. Then hit Calculate and assuming the population is normally distributed, the necessary sample size will be shown.							
σ: Ε:			Calculate n	n:			
Scientific Calculator							

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22.9: Needed Sample Size for a Confidence Interval for a Population Proportion Calculator

Sample Size Calculator							
Fill in the error bound (E) and the confidence level (CL) written as a decimal, for example a 95% confidence level is 0.95. If there is an estimate for the population proportion, check the "Have Estimate for p" radio button and then fill in the estimate in the p box that appears. Then hit "Calculate n" and the needed sample size will be calculated for you.							
No Estimate for p	 Have Estimate for p 	Estimate for p:	E:	CL:	Calculate n	n:	
Scientific Calc Back to the Calcu	ulator lator Menu						
Estimate for p:							

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22.10: Two Independent Samples With Data Hypothesis Test and Confidence Interval Calculator

Two Independent Samples w	Ath data C	alculator					
Type in the values from the two data sets separated by commas, for example, 2,4,5,8,11,2. Then enter the tail type and the confidence level and hit Calculate and the test statistic, t, the p-value, p, the confidence interval's lower bound, LB, and the upper bound, UB will be shown. Be sure to enter the confidence level as a decimal, e.g., 95% has a CL of 0.95.							
Data1:							
Data2:							
• <							
○ >		CL:		Calculate			
○ ≠				Calculate			
t:	p		LB	UB			
Scientific Calculator							
Back to the Calculator Menu							

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22.11: Hypothesis Test and Confidence Interval Calculator for Two Dependent Samples

Two dependent Samples with data Calculator

Type in the values from the two confidence level and hit Calcu bound, UB, and the data set of a CL of 0.95.	wo data set late and the the differen	s separated by comm e test statistic, t, the p nces will be shown.	has, for example, 2,4 p-value, p, the confid Be sure to enter the c	,5,8,11,2. T ence interva onfidence le	Then enter the tail type and the al's lower bound, LB, the upper evel as a decimal, e.g., 95% has
Data1:					
Data2:					
		CL:			_
0 ≠				Calcula	te
t:	р]	LB		UB
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22.12: Chi-Square Goodness of Fit Test Calculator

χ^2 Goodness of fit Calculator							
Type in the values from the observed and expected sets separated by commas, for example, 2,4,5,8,11,2. Then hit Calculate and the test statistic, χ^2 , and the p-value, p, will be shown.							
Observed:							
Expected:							
Calculate							
χ ² :p							
Scientific Calculator							
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22.13: Chi-Square Test For Homogeneity Calculator

χ^2 test for Homogeneity calculator

Enter in the observed values for each of the two samples A and B and hit Calculate and the χ^2 test statistic and the p-value will be calculated for you. Leave blank the last rows that don't have data values.

Α	В
Calculate	
χ^2 :	p
Scientific Calculator Back to the Calculator Menu	

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22.14: Chi-Square Test For Independence Calculator

χ^2 test for independence calculator

Enter in the observed values and hit Calculate and the χ^2 test statistic and the p-value will be calculated for you. Leave blank the last rows and columns that don't have data values.

	А	В	С	D
First				
Second				
Third				
Fourth				
Fifth				
Sixth				
Seventh				
Eighth				
Ninth				
Tenth				
Calculate				
χ^2 :		p		
Scientific Calculator Back to the Calculator Me	enu			

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22.15: ANOVA Calculator

Enter the data values separated by commas, for example: 3,4,7,9,-2,8. Then hit Calculate and the F-statistic and the p-value will be generated for you. Data1:	ANOVA Calculator					
Data1: Data2: Data3: Data4: Data4: Data5: Data5: Data6: Data7: Data7: Data8: Data8:	Enter the data values separated by commas will be generated for you.	, for example:	3,4,7,9,-2,8.	Then hit Ca	lculate and the F-sta	tistic and the p-value
Data2: Data3: Data4: Data5: Data6: Data7: Data8: Data8: Data8: Data8: Data8:	Data1:					
Data2:						
Data3:	Data2:					
Data4: Data5: Data6: Data7: Data8: Data8: Calculata	Data3:					
Data4:						
Data5: Data6: Data7: Data8: F: p	Data4:					
Data6: Data7: Data8:	Data5:					
Data6:						
Data7:	Data6:					
Data8:	Data7:					
Data8:						
F: p	Data8:					
F: p						
	Calculate	F:			p	
Scientific Calculator Back to the Calculator Menu	Scientific Calculator Back to the Calculator Menu					

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22.16: Hypothesis Test and Confidence Interval Calculator- Difference Between Population Proportions

Two Proportions Calculator

Enter in the sample sizes and number of successes for each sample, the tail type and the confidence level and hit Calculate and the test statistic, t, the p-value, p, the confidence interval's lower bound, LB, and the upper bound, UB will be shown. Be sure to enter the confidence level as a decimal, e.g., 95% has a CL of 0.95.

	Sample Size	Number of Successes
First Sample		
Second Sample		
	CI.	
○ × ○ >		
○ ≠	Calculate	
z: p:	LB:	UB:
Scientific Calculator		
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