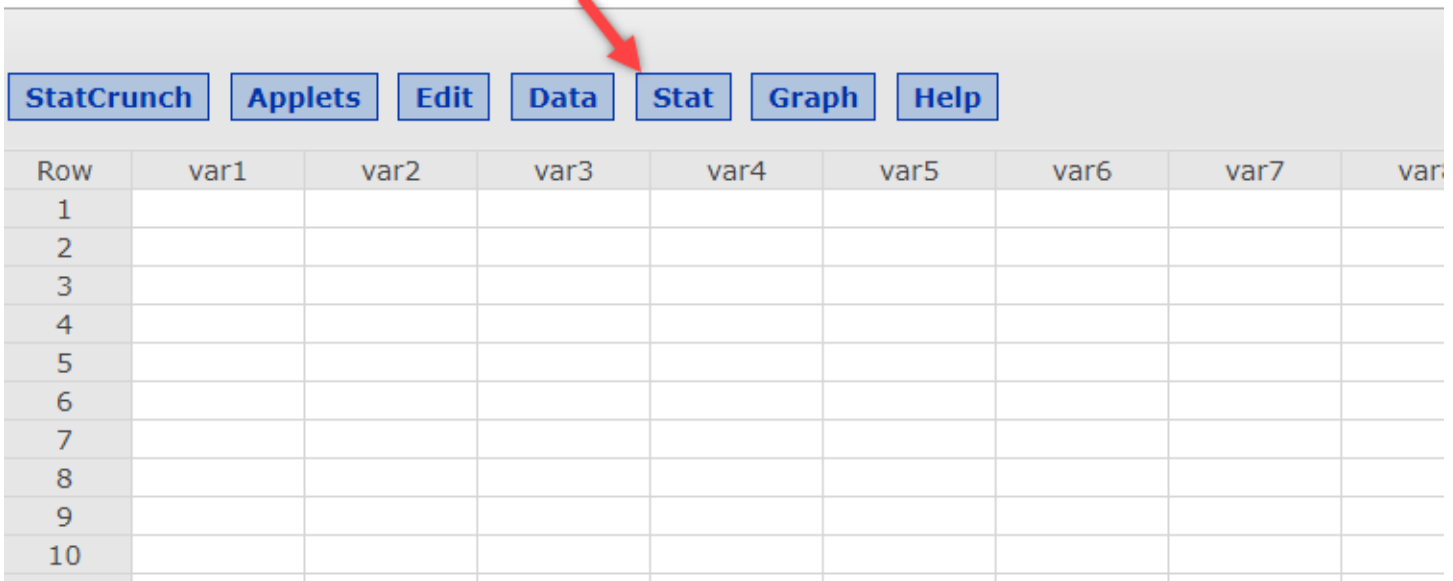


Construct the confidence interval for the population mean μ .

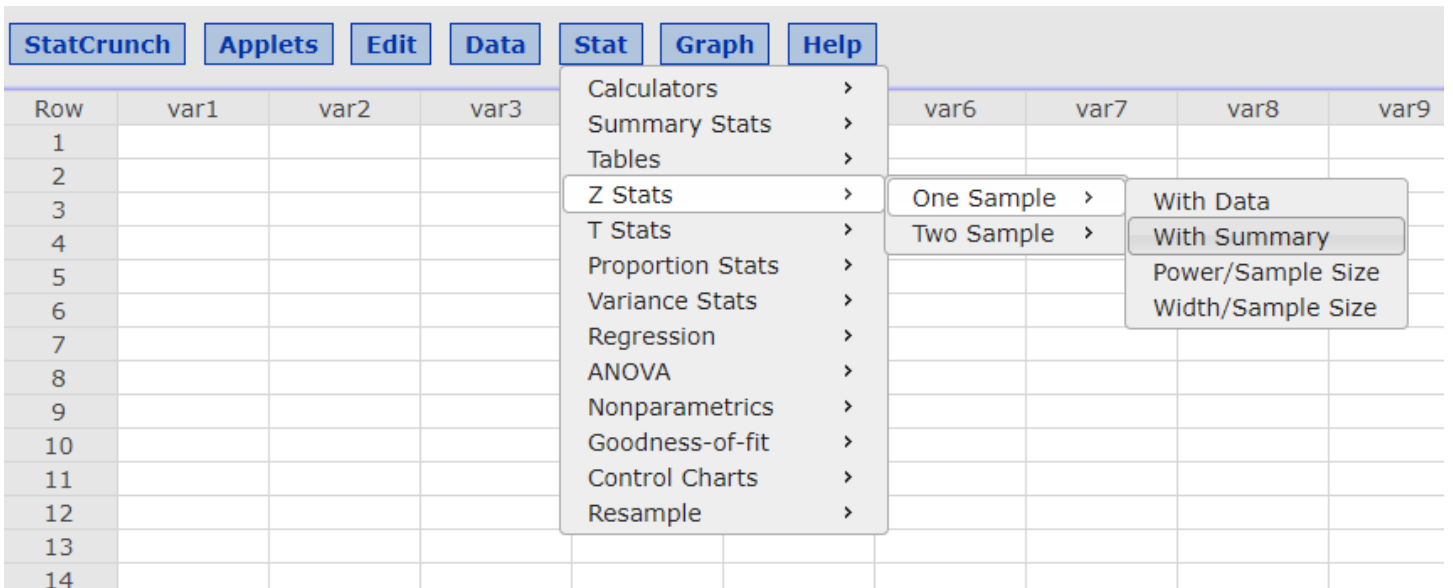
$$c = 0.98, \bar{x} = 15.6, \sigma = 6.0, \text{ and } n = 65$$

1. Open StatCrunch. You can do this by clicking on a link inside MyStatLab or navigating to www.StatCrunch.com.
2. You will see this screen. Click on **Stat**.



Row	var1	var2	var3	var4	var5	var6	var7	var8	var9
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

3. In the dropdown, select **Z Stats > One Sample > With Summary**. Use the z distribution because you are given the population standard deviation sigma. Here, we have summary data, x-bar and sigma, but if you have raw data, you would select **With Data**.



Row	var1	var2	var3	var4	var5	var6	var7	var8	var9
1									
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[Type here]



Dawn E. Wright. Ph.D.

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4. In the dialog box that opens, enter the sample mean, \bar{x} , the standard deviation, σ , and the sample size, n . Then select the **Confidence interval for μ** option and enter the confidence level, c . Then click **Compute!**

One Sample Z Summary

Sample mean: 15.6

Standard deviation: 6

Sample size: 65

Perform:

Hypothesis test for μ

$H_0: \mu = 0$

$H_A: \mu \neq 0$

Confidence interval for μ

Level: 0.98

Output:

Store in data table

Optional graphs:

Confidence interval plot

? Cancel Compute!

5. The lower and upper limits of the confidence interval are shown as is the sample mean. The confidence interval, to two decimal places, would be (13.87, 17.33).

Options

One sample Z summary confidence interval:

μ : Mean of population
Standard deviation = 6

98% confidence interval results:

Mean	n	Sample Mean	Std. Err.	L. Limit	U. Limit
μ	65	15.6	0.74420841	13.868712	17.331288

[Type here]



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