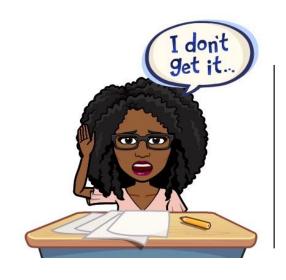
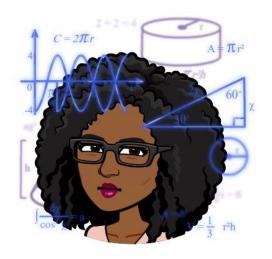


PURPOSE

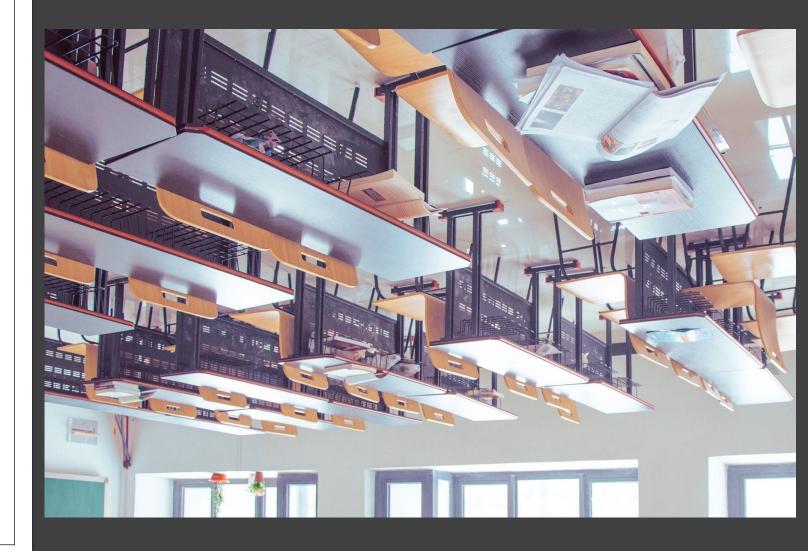








TASK

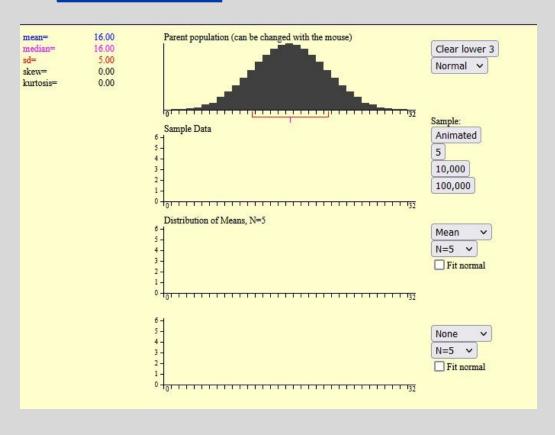


		Uniform Distribution	Right Skewed Distribution	Bell-shaped Distribution
Population	What does the population look like? (Name and picture)			
	What is the mean of the population?			
	What is the standard deviation of the population?			
Sampling Distribution with samples of size n = 2	Select 10,000 samples of size 2. What does the distribution of the sample means look like? (Name and picture)			
	What is the mean of the distribution of the sample means?			
	What is the standard deviation of the distribution of the sample means?			
Sampling Distribution with samples of size n = 30	sample means look like? (Name and picture)			
	What is the mean of the distribution of the sample means?			
	What is the standard deviation of the distribution of the sample means?			

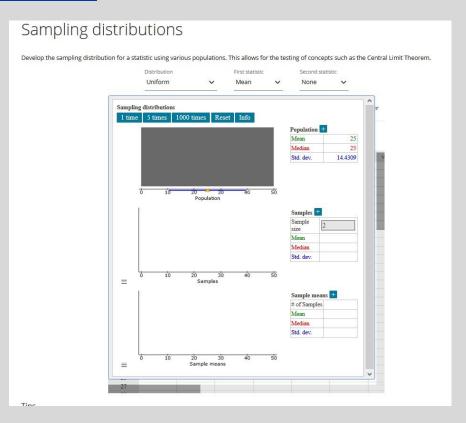
Write a 1-2 paragraph summary of what you have learned. Make sure to use complete sentences.

Free Applets

https://onlinestatbook.com/stat_sim/sampling dist/index.html

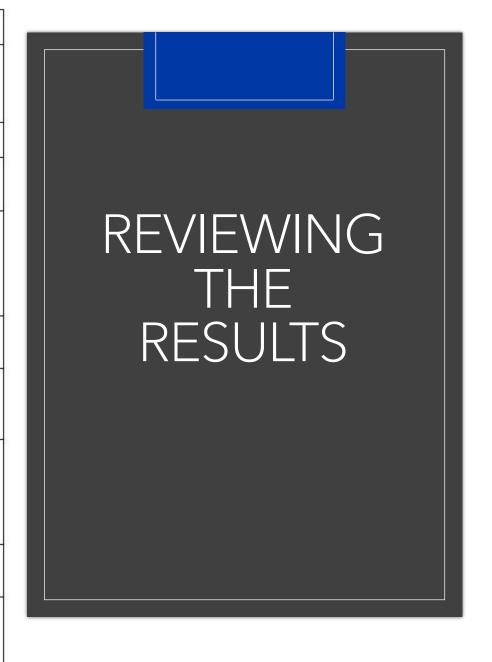


https://www.statcrunch.com/applets/type3&s amplingdist



Use each of the following distributions to answer the questions.

		Uniform Distribution	Right Skewed	Bell-shaped
			Distribution	Distribution
Population	What does the population look like? (Name and picture)	Uniform	Right-skewed	bell
	What is the mean of the population?	25	14.0519	25
	What is the standard deviation of the population?	14.4309	11.8255	5
Sampling Distribution with samples of size n = 2	Select 10,000 samples of size 2. What does the distribution of the sample means look like? (Name and picture)	triangle	Right-skewed	bell
	What is the mean of the distribution of the sample means?	25.0249	14.0218	24.9804
	What is the standard deviation of the distribution of the sample means?	10.28	8.3495	3.5227
Sampling Distribution with samples of size n = 30	Select 10,000 samples of size 30. What does the distribution of the sample means look like? (Name and picture)	1000 1000 1000 1000 1000 1000 1000 100	1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500- 1500-	bell
	What is the mean of the distribution of the sample means?	24.9967	14.0505	25.009
	What is the standard deviation of the distribution of the sample means?	2.6405	2.1618	0.9084



Making It Easier (MyLab Statistics Automatic Grading)



Homework: Lab 3: Sampling Distributions In	☐ Show c	☐ Show completed problem S			
Score: 0 of 9 pts	4	1 of 6 (0 complete) ▼	•	ни	/ Score: 0%, 0 of 32
Instructor-created question				Tutoring	Question Help ▼
In this activity, you will use the information that you learned from watching the 3 previous videos and the 3 Distributions created from a Uniform population, a Right-skewed population, and a Normal population. First, to open the app. Click on the "StatCrunch" link in MyLab Statistics. Click on the 2nd link for the "Stort the questions below, you will answer questions about the Sampling Distribution created from a population that's uniform. In the Sampling distributions app, select "Uniform", and click "Compute". 1.) What is the mean of the population? 2.) What is the standard deviation of the population? Round your answer to 2 decimal places. 3.) Now, let's create a Sampling Distribution from a sample size (n) = 2. We want to create 10,000 sample. A. Normal (bell-shaped) B. Pyramid (a triangle) C. Left-skewed (skinny on the left) D. Right-skewed (skinny on the right) E. Uniform (rectangular) 4.) What is the mean of the sampling distribution of the sample mean? Round your answer to 2 decimal places. 5.) What is the standard deviation of the sampling distribution of the sample mean? Round your answer to 2 decimal places.	es, so	unch website" option. In the click the "1000 times" butto click the places.	navigat	ation bar, click on "Open StatCrunch". Click the "Applets" button. Select "San	apling distributions".
Click to select your answer(s) and then click Check Answer					

Results

- Test 3 scores increased, and now it is not the test with the lowest average performance.
 (Hypothesis Testing and Confidence Intervals are now.)
- The majority of students answered the questions on sampling distributions of the sample mean correctly.
- It was easier for students to grasp the concept of sampling distributions of the sample proportion.

