## Week 1 Lab

Back to Week 1



6/6 points earned (100%)

Quiz passed!



1/1 points

Which of the following is false?

- The distribution of areas of houses in Ames is unimodal and rightskewed.
- 50% of houses in Ames are smaller than 1,499.69 square feet.

## **Correct Response**

- The middle 50% of the houses range between approximately 1,126 square feet and 1,742.7 square feet.
- The IQR is approximately 616.7 square feet.
- The smallest house is 334 square feet and the largest is 5,642 square feet.



1/1

points

2.

Which would you think would provide a more accurate estimate of the population mean?		
0	Sample size of 50	
0	Sample size of 100	
0	Sample size of 1000	
Corre	ect Response	
<b>~</b>	1 / 1 points	
3. How m	nany elements are there in this object called sample_means_small?	
0	0	
0	3	
0	25	
Corre	ect Response	
0	100	
0	5,000	
<b>~</b>	1 / 1 points	
4. Which of the following is <i>true</i> about the elements in the sampling distributions you created?		
0	Each element represents a mean square footage from a simple random sample of 10 houses.	

Suppose we took two more samples, one of size 100 and one of size 1000.

## **Correct Response**

0	Each element represents the square footage of a house.
0	Each element represents the true population mean of square footage of houses.
<b>~</b>	1 / 1 points
5. It makes intuitive sense that as the sample size increases, the center of the sampling distribution becomes a more reliable estimate for the true population mean. Also as the sample size increases, the variability of the sampling distribution	
0	decreases
Corre	ect Response
0	increases
0	stays the same
<b>~</b>	1/1 points
6. Which	of the following is false?
0	The variability of the sampling distribution with the smaller sample size (sample_means50) is smaller than the variability of the sampling distribution with the larger sample size (sample_means150).
Corre	ect Response
0	The means for the two sampling distributions are roughly similar.

