

## 9-06 Making Inferences from Experiments

**c.** What can you conclude from parts (a) and (b)?

Total Yield of Green Bell Pepper Plants (kilograms)	
Control Group	Treatment Group
0.8	1.0
0.5	1.1
0.6	0.9
0.7	0.8
0.9	1.2
1.1	0.8
0.8	0.6
1.0	1.3
0.6	1.1
0.9	0.9

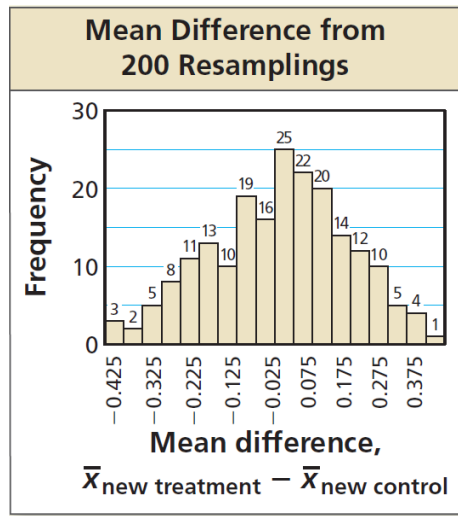
- When the sample size is too \_\_\_\_\_ to be meaningful

1. Combine \_\_\_\_\_ the results
2. Assign each data point a \_\_\_\_\_
3. Use a \_\_\_\_\_ to select all the data points
4. Make the first half the new \_\_\_\_\_ and the other half the new \_\_\_\_\_
5. Find  $\bar{x}_{treatment} - \bar{x}_{control}$
6. Repeat \_\_\_\_\_ times and draw a \_\_\_\_\_ of the differences
7. If the experimental difference is near the \_\_\_\_\_ of the histogram, then it is significant

PRB  $\rightarrow$  randint(1,20)

Total Yield of Green Bell Pepper Plants (kilograms)	
Control Group	Treatment Group

The histogram shows the results from 200 resamplings of the data. Compare the experimental difference of 0.18 from Example 1 with the resampling differences. What can you conclude about the hypothesis? Does tap water have an effect on the yield?



- If no \_\_\_\_\_ is given, use the resampling simulator at [andrews.edu/~rwright/algebra2/ResamplingSimulator.html](http://andrews.edu/~rwright/algebra2/ResamplingSimulator.html)

509 #1-10 all, 13-16 all, 20 = 15