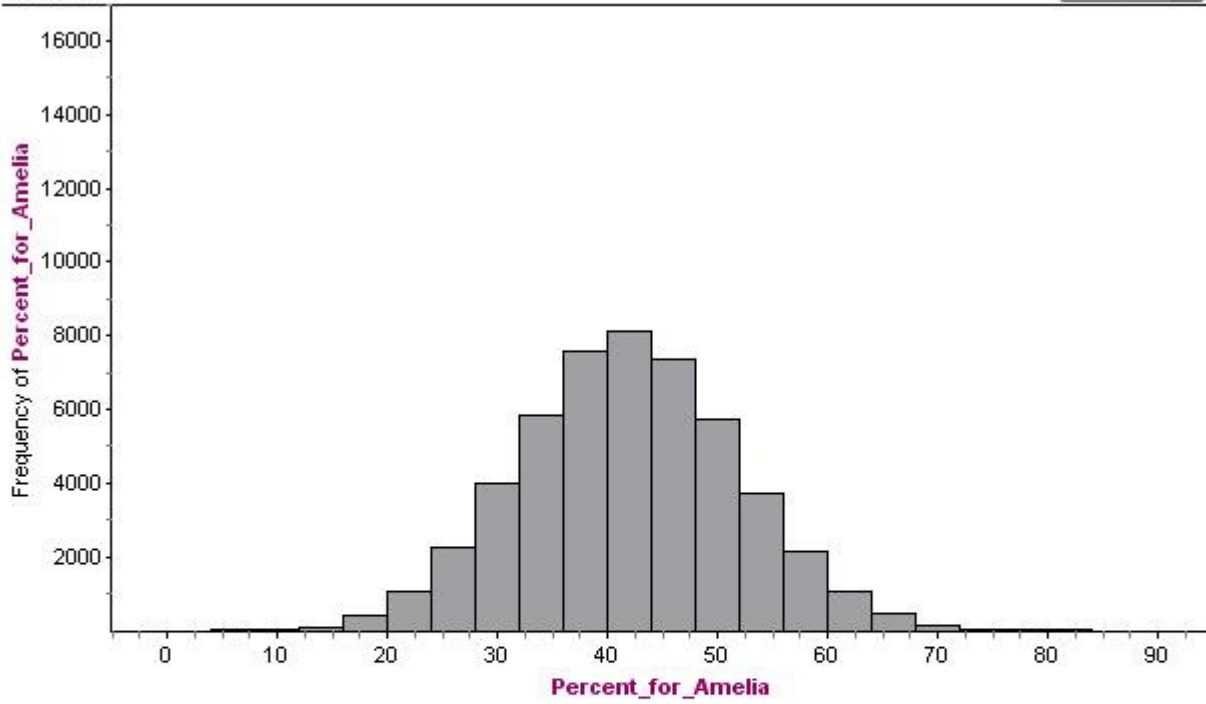


# Survey Says Activity 3 Discussion Questions

Some of the work we completed:



Collection 2

Percent_for_Amelia	39.96704	mean ( )
	7781	count (Percent_for_Amelia < 32)
	7615	count (Percent_for_Amelia > 48)
	50000	count (Percent_for_Amelia)

### Activity 3

#### Discussion Questions

- a. What patterns did you observe in the two histograms created in the exploration?
  
  
  
  
  
  
  
  
  
  
- b. How does the mean of the sample proportions compare with the population proportion?
  
  
  
  
  
  
  
  
  
  
- c.
  1. If the population proportion had been 52% instead of 40%, how would the histograms have been affected?
  
  
  
  
  
  
  
  
  
  
  2. What would the histograms have looked like if twice as many samples were taken?
  
  
  
  
  
  
  
  
  
  
  1. In the class data, what percentage of the sample proportions were less than or equal to 32%?  
  
  
  
  
  
  
  
  
  
  - 2. Given this percentage, should Amelia be concerned about **a loss of** student support? Explain your response.
  
  
  
  
  
  
  
  
  
  
- e. How might you change the sampling method described in Part c to obtain a more accurate characterization of the population?