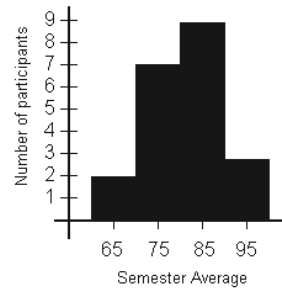


**Statistical Studies: Analyzing Data**  
 III.B Student Activity Sheet 5: Histograms

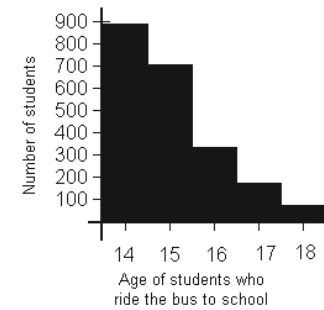
Use the following histogram to answer Questions 5-7.



- Does the histogram illustrate univariate data or bivariate data? Categorical or quantitative?
- Would you describe the histogram as symmetric? Why or why not?
- Describe the distribution of grades for the class. Justify any estimates you make.

**Statistical Studies: Analyzing Data**  
 III.B Student Activity Sheet 5: Histograms

Use the following histogram to answer Questions 8 and 9.



- Consider the new histogram showing bus ridership at a local high school. This histogram is not symmetric; it is skewed to the right. You know this because the distribution has a tail out toward the right side. What is happening with this population that causes the distribution to be skewed to the right?
- Estimate the average age of students who ride the bus. This average is the center of the distribution. Justify your estimate.
- Suppose the histogram of bus ridership looked like this instead. Data values that are distant from most of the other values are generally thought of as *outliers*. What may have happened? Does this data distribution affect your answers to Questions 8 and 9?

