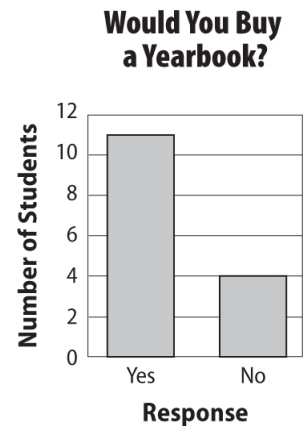


# Worksheet 10-5 - PreAlgebra

## Using Sampling to Predict

Identify each sample as *biased* or *unbiased* and describe its type. Explain your reasoning.

1. To determine how many people in a town support a new tax levy, 200 people are randomly selected from a phone book and then surveyed over the phone.
  
2. To determine the number of households in a town that recycle, 40 households from the same street are polled.
  
3. To determine the usual demand of a Web site, the number of users currently visiting the Web site is recorded every hour.
  
4. The yearbook staff wanted to find out how many students would buy a yearbook. So, the staff surveyed 15 students who were in the school library after school. The results are in the graph. Is this sampling method valid? If so, about how many of the 1287 students in the school will buy yearbooks?



5. A library would like to see how many of its patrons would be interested in regularly checking out books from an enlarged print section. They randomly surveyed 200 patrons and 6 patrons responded that they would regularly check out books from an enlarged print section. If the library has a total of 3200 patrons, how many people can they expect to regularly check out books from an enlarged print section?