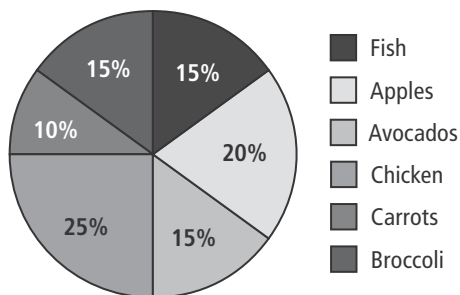




11-1 Additional Practice

Statistical Questions and Variables

- Are the questions below statistical questions? Explain.
 - What is the tallest mountain in the world?
No; it can be answered using one piece of information.
 - What is the most popular television program among teenagers?
Yes; multiple responses are anticipated.
 - What is the most popular men's sport: football, basketball, tennis, golf, hockey, or lacrosse?
Yes; it is a categorical statistical question with a variety of choices for the response.
- What type of statistical variable is represented by the graph shown? Explain.



Categorical; the data indicate qualitative attributes.

- A professor teaches four different science classes. He wants to try out a new style of exam, so during finals, he gives the new exam to 15 randomly selected students in each class. The other students take the regular exam.
 - What is the sample in this situation?
the 15 students who received the new exam
 - What is the population?
all the students in the professor's classes
- Is the given data summary a parameter or a statistic?
 - At a local company, management surveys every tenth employee and finds that 24% of the surveyed employees buy their lunch in the cafeteria.
statistic
 - Of the 1,500 people on a cruise ship, 25% are under 18.
parameter