1-6

Practice

Collecting Data

**Determine whether each is a good sample. Describe what caused
the bias in each poor sample. Explain.**

1. Every third person leaving a music store is asked to name the type of music they prefer.

2. One hundred students at Cary High School are randomly chosen to find the percentage of people who vote in national elections.

3. Two out of 25 students chosen at random in a cafeteria lunch line are surveyed to find whether students prefer sandwiches or pizza for lunch.

Refer to the following chart.

Favorite Leisure Activity									
S	R	C	C	S	R	R	C	S	C
M	S	C	C	C	M	C	C	S	R
S	S	R	M	M	C	M	S	C	R

C = computer games, M = movies,
R = reading, S = sports

4. Make a frequency table to organize the data.

5. What is the most popular leisure activity?

6. How many more people chose sports over reading?

7. Does the information in the frequency table support the claim that these people do not get enough exercise? Explain.

Refer to the following chart.

Number of Breakfasts Eaten Per School Week									
0	5	3	2	0	2	1	3	4	2
5	1	3	2	1	3	1	3	4	1
0	2	3	5	5	2	3	4	1	3

8. Make a frequency table to organize the data.

9. How many students eat breakfast fewer than 3 times per week?

10. Should the school consider a campaign to encourage more students to eat breakfast at school? Explain.