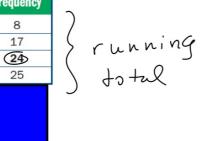
Basic Algebra 1.6
Collect and organize data using sampling
Collect and organize data using frequency tables
data
sample
frequency table

4-8 groups
tally marks
cumulative frequency table

A good sample is:

representative of the larger population,
selected at random, and
large enough to provide accurate data.

Static Electricity					
Time (s)	Frequency	Cumulative Frequency			
15–24	8	8			
25-34	9	17			
35– 44	7	24			
45–54	1	25			



Refer to the chart at the right.

- **5.** Make a frequency table to organize the data. (*Example 2*)
- **6.** What number of goals was scored most frequently? *(Example 3)*
- 7. How many times did the team score 8 goals? (Example 3)
- 8. How many more times did the soccer team score six goals than three goals? (Example 3)

3)	\	2	
1 2 3 4 5 6 7		3514331	

Number of Soccer Goals Scored This Season				
1	2	5		
1	6	2		
6	8	4		
2	4	5		
5	1	3		
4	7	2		
2	6	4		

Goal: 4-8 groups

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

- Thirty people standing in a movie line are asked to name their favorite actor.
- 11. Police stop every fifth car at a sobriety checkpoint. N
- 12. Every other household in a neighborhood of 240 homes is surveyed to determine how many people in the area recycle.
- 13. Every other household in a neighborhood of 20 homes is surveyed to determine the country's favorite presidential candidate.
- **14.** Every third student on a class roster is surveyed to determine the average number of hours students in the class spend on a computer.

