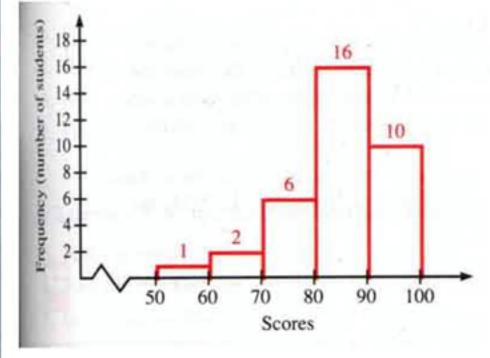
15 - 1 Presenting Statistical Data Page 709

The results of an Algebra Test are shown in the table below and to the left. This table is called a **frequency distribution**, because it shows how many times a given score was obtained.

Score	Number of Students
99	2
98	1
95	3
94	1
93	1
90	2
88	2
87	3
84	5
83	3
82	1
80	2
78	1
75	2
74	1
73	2
68	1
65	1
56	1 .

A histogram, shown below, can be used to display a frequency distribution.



Ex 1) Use the histogram above to answer the following questions:

- 1a) Which interval contains the most test scores? 80 90; 16
- 1b) Which contains the fewest test scores? 50-60 : 1
- 1c) How many test scores are 80 or above? 26
- 1d) How many test scores are below 70? 3

Ex 2) Draw a stem and leaf plot for the test scores above.

Numbers used to describe a set of data are called statistics.

Three different statistics often used to measure the central tendency of a distribution:

mode: the number that occurs most frequently

median: the middle number of a distribution

mean: the arithmetic average of the numbers (the sum of the

scores divided the number of scores)

Ex 3) Use the following stem and leaf plot to find the (a) mode, (b) median and (c) mean:

Ex 4) Find the (a) mode and the (b) median of the following distribution: