## 5.2 Frequency Tables, Histograms and Frequency Polygons

A class had the following Test Scores on Chapter 4 Test (as percentages)

81, 97, 81, 82, 65, 54, 99, 56, 46, 62, 100, 85, 100, 76, 90, 72, 82, 87, 99, 74, 63, 60, 96, 82, 45

What is the range? 100 - 45 = 55%

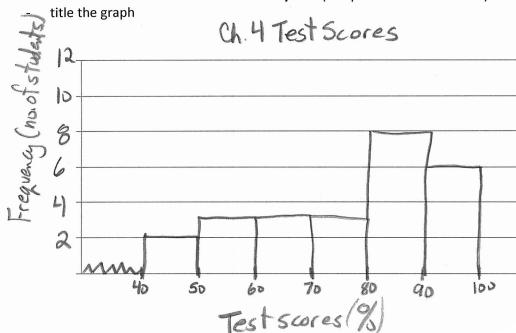
## Make a frequency distribution table

- Organizes data into intervals, each interval is the same width
- Contains the frequency or count of the occurrences of values within a particular group or interval
- Intervals don't include the lower boundary, but do include the upper boundary
  - Ex: 60-70% (really includes values of 61%-70%)
- Most tables have between 5 and 12 intervals
  - If you are told to have a set number of intervals in your table, find the range in the data and divide it by the number of intervals. You may need to round the answer in order to have an interval width that is manageable you need I value in your range Range = 55 = 9.1 to work with.

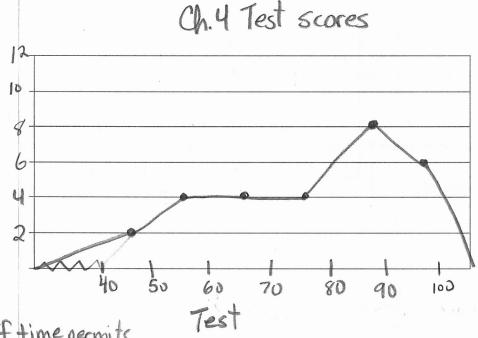
		O INIGANO	0	Du a we	50 an interval widthot 1
does not include 50	Test Score (%)		Tally		Frequency (Hopstudents)
	40-50		11	y	1 2
	> 50-60		111		3
	60-70		111		3
	70-80	9	11 1		3
	80 - 93		411		8
	96-100		HHTI		6

## Make a histogram to represent the data.

- the graph of a frequency distribution
- equal intervals are marked on the horizontal axis, frequencies on the vertical axis
- the height of the bar indicates the number of occurrences (a higher bar indicates a value occurring more often)
- intervals don't include the lower boundary, but do include the upper boundary
- bars are the same width and are side by side (no spaces in between bars)



- looks like a line graph
- produced by joining the midpoints of the intervals using straight lines



If time permits

look over ex. I about earthquakes

Please read the 'In Summary' on page 220 of the textbook. Please make any additional notes below: