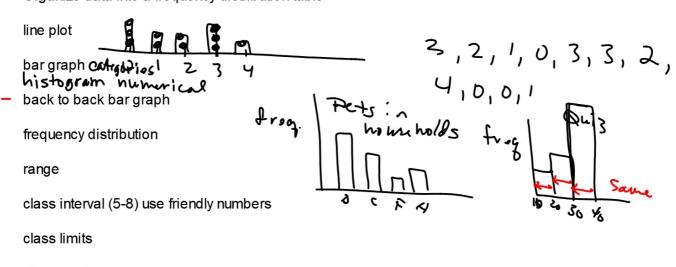
Precalc14.1

Draw, analyze, and use bar graphs and histograms Organize data into a frequency distribution table



class marks

histogram

frequency polygon

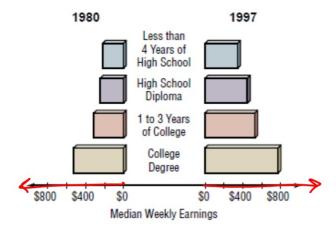
activity: senior and junior birthdays

ECONOMICS The following data relates the amount of education with the median weekly earnings of a full-time worker 25 years old or older for the years 1980 and 1997.

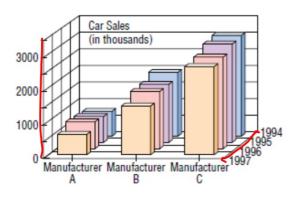
		Median Weekly Earnings			
	and to	Less than 4 Years of High School	High School Diploma	1 to 3 Years of College	College Degree
	1980	\$222	\$266	\$304	\$376
	1997	\$321	\$461	\$518	\$779

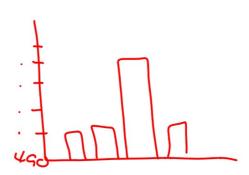
Source: The Wall Street Journal 1999 Almanac

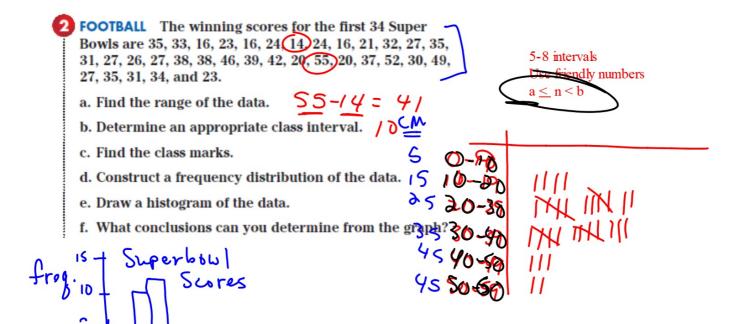
Back to back bar graph: compare across years, compare different ed levels

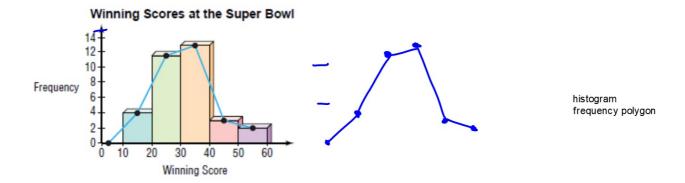


Compare by manufacturer Compare by year Compare by sales









95

3 HEALTH A graduate student researching the effect of smoking on blood pressure collected the following readings of systolic blood pressure from 30 people within a control group.

125, 145, 110, 126, 128, 180, 177, 176, 156, 144, 182, 205, 191, 140, 138, 126, 154, 163, 172, 159, 174, 151, 142, 160, 147, 143, 158, 129, 132, 137

- a. Find an appropriate class interval. Then name the class limits and the class marks.
- b. Construct a frequency distribution.
- c. Use a graphing calculator to draw a frequency polygon.

100 90-110 120 110-130 140 150-150 160 150-170 180 170-190 200 190-210 5-8 intervals
Use friendly numbers

3,6