Descriptive Statistics

ASSIGNMENT

prepared by

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# MODERN MATHS AND STATISTICS

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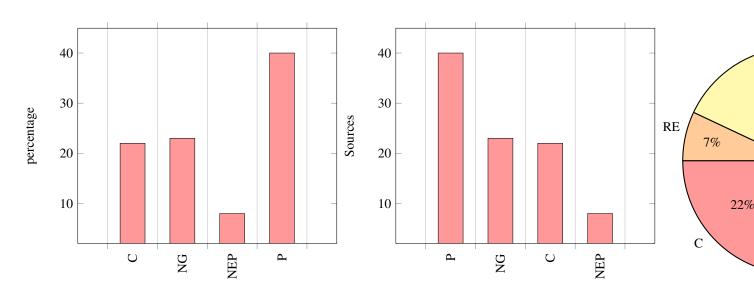
## 1 1.4.3:

The data in Table 1.9 are presented to illustrate the role of renewable energy consumption in the U.S. energy supply in 2007 (source: http://www.eia.doe.gov/fuelrenewable.html). Renewable energy consists of biomass, geothermal energy, hydroelectric energy, solar energy, and wind energy.

- (A) Construct a bar graph
- (B) Construct a Pareto chart.
- (C) Construct a pie chart.

# Answer

# Answer



# 2 1.4.14:

The following table gives radon concentrations in pCi/liter (picocurie per liter) obtained from 40 houses in a certain area.

			17.1						
7.9	0.5	13.7	11.5	2.9	3.6	6.1	8.8	2.2	9.4
15.9	8.8	9.8	11.5	12.3	3.7	8.9	13.0	7.9	11.7
6.2	6.9	12.8	13.7	2.7	3.5	8.3	15.9	5.1	6.0

- (A) Construct a stem-and-leaf display and interpret.
- (B) Construct a frequency histogram and interpret.
- (C) Construct a pie chart and interpret.

### **Answer**

### **Stem and Leaf Plot**

Stem	Leaves
0	5 6
1	5579
2	1278899
3	5678
5	1
6	01249
7	99
8	3889
9	4 8
11	5 5 7
12	3 8
13	0577
15	99
16	0
17	1 2