

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
DEPARTMENT OF MATHEMATICS & STATISTICS
STAT 211.02 Quiz #2

Name: _____ ID #: _____

1) The Energy Information Administration reported the following sources of electricity in the US

Source of Electricity	Percentage
Coal	44
Hydroelectric	7
Natural Gas	24
Nuclear	20
Other	5

a) Construct a Pareto Chart.

b) What percentage of power is derived from coal, natural gas or nuclear?

2) The following data represent the amount of time in minutes for a sample of 20 customers who used an express checkout at a local supermarket.

1, 1, 1.1, 1.2, 1.3, 1.4, 1.7, 1.8, 2, 2.1, 2.1, 2.1, 2.2, 2.2, 2.3, 2.3, 2.9, 3.1, 3.2, 4.1,
Construct a stem and leaf plot and comment on it.

3) The following data represent the life in hours of a sample of 40 light bulbs.

684	852	899	938	984
697	852	905	939	1005
720	859	909	943	1014
773	860	911	946	1016
821	868	922	954	1041
831	870	924	971	1052
835	876	926	972	1080
848	893	926	977	1093

a) Construct a frequency histogram using $[650, 750)$ as the first interval.

b) Comment on the shape of the histogram.