

Elementary Statistics – Homework No. 1

Issued: Thursday, 4 March 2021

Submission deadline: Thursday, 11 March 2020

Question 1 (8 points)

A survey was taken on how much trust people place in the information they read on the Internet. Construct a categorical frequency distribution of the data. A = trust in all that they read, M = trust in most of what they read, H = trust in about one-half of what they read, S = trust in a small portion of what they read. (Based on information from the *UCLA Internet Report*).

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| M | M | M | A | H | M | S | M | H | M |
| S | M | M | M | M | A | M | M | A | M |
| M | M | H | M | M | M | H | M | H | M |
| A | M | M | M | H | | | | | |

Question 2 (8 points)

The number of bears killed in 2010 for 52 counties in Pennsylvania is shown in the frequency distribution. Construct a frequency polygon for the data.

| Class limits | Frequency |
|--------------|-----------|
| 1-25 | 15 |
| 26-50 | 10 |
| 51-75 | 5 |
| 76-100 | 6 |
| 101-125 | 4 |
| 126-150 | 4 |
| 151-175 | 0 |
| 176-200 | 4 |
| 201-225 | 0 |
| 226-250 | 4 |
| Total | 52 |

Source: Pennsylvania State Game Commission

Question 3 (4 points)

Construct a stem and leaf plot for the set of data. Clearly define a key that shows how to read the plot.

4.5, 4.3, 0.8, 3.5, 2.6, 1.4, 0.2, 0.8, 4.3, 1.6, 0.8, 2.3, 3.2