

Section 10.1: Frequency Distributions & Stem-and-Leaf Plots

Example 1: A survey asked 30 business executives how many college units in management each had.

3 25 22 16 0 9 14 8 34 21

15 12 9 3 8 15 20 12 28 19

17 16 23 19 12 14 29 13 24 18

- a) Group the data and make a frequency distribution.
1. Lowest number
 2. Highest number
 3. Interval size
- b) Draw a histogram and frequency polygon
- c) Construct a stem-and-leaf plot

Section 10.2: Measures of Central Tendency

Three Measures of Central Tendency:

1. Mean – average of the numbers, \bar{X}
2. Median – middle number
(data arranged in order)
3. Mode – number that occurs most frequently

Example 2: For this set of numbers—

44 41 25 36 67 51

- a) Find the mean
- b) Find the median
- c) Find the mode

Example 3: Find the mean for this frequency distribution—

Value	Frequency
3	4
5	2
9	1
12	3

Example 4: For this set of grouped data—

Section 10.2: Measures of Central Tendency

(Refer to Example 1)

Interval	Frequency
0-4	3
5-9	4
10-14	6
15-19	8
20-24	5
25-29	3
30-34	1

- Find the mean
- Find the modal class

Example 5: Find the mode for this set of numbers

57 38 55 55 80 87 98