

Exam 1

1.) Find $\bar{x}$ and s of the frequency distribution below:

Class	Frequency
0-9	5
10-19	12
20-29	2
30-39	7

2.) Below are amounts of cash 25 randomly selected people had in their wallet:

2 10 12 13 18 23 20 40 15 40 12 16 20
5 60 28 24 16 16 17 18 11 3 4 6

Find: a.) $\bar{x}$ b.) s c.) Range d.) mode e.) P_{20}

f.) P_{38} g.) Percentile corresponding to 16

h.) Construct a boxplot

3.) Construct a frequency and a relative frequency histograms using 5 classes:

12 45 67 88 98 76 56 45 44 34 34 36
56 67 56 45 45 34 98 76 56 46 45 34

4.) Construct a stemplot with data from #3.

5.) Adults were asked how many cups of coffee they drink per day. Results are summarized below. Construct a pie chart.

None=23

1 cup=45

2 cups=134

3 cups=78

4+ cups=67

6.) Last semester the average final exam score was 67 with a standard deviation of 12.

a.) Maria scored an 88 and Brian scored a 45. Calculate the z -score for each. Whose score is more extreme and why?

b.) Find the final exam scores corresponding to unusually high and unusually low exam scores.