

Seat /ID	Probability and Statistics	Section:
Date: 15-9-23	Quiz-1	Time: 25 mint

Q1

Dr. Thomas of Georgia state university has collected information on millionaires. The ages of the 36 millionaires sampled are arranged in the following table.

42	42	45	47	48	31	38	39	39
53	54	55	57	59	48	48	52	52
66	66	67	68	68	60	61	64	64
75	77	79	79	79	69	71	71	74

- Find the five-number summary.
- Identify potential outliers, if any.
- Construct a boxplot.
- Calculate sample mean and standard deviation. (use calculator)
- Find the coefficient of variation or coefficient of skewness.

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Q2

The U.S. Federal Highway Administration conducts studies on motor vehicle travel by type of vehicle. Results are published annually in Highway Statistics. A sample of 15 cars yields the following data on number of miles driven, in thousands, for last year.

13.2	13.3	11.9	15.7	11.3
12.2	16.7	10.7	3.3	13.6
14.8	9.6	11.6	8.7	15.0

- Find the five-number summary.
- Identify potential outliers, if any.
- Construct a boxplot.
- Calculate trimmed mean and sample standard deviation. (use calculator)
- Find the coefficient of variation or coefficient of skewness.

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Q-3

- Construct a boxplot for the data in the following stem and leaf plots.
- Identify potential outliers, if any.
- Find the coefficient of variation or coefficient of skewness and discuss symmetry

Stem	Leaf
2	1 1 3 5 6 8 8
3	2 2 3 3 3 4 5 6 8
4	0 0 3 4 4 4 5 5 7 7 8
5	5 5 6 8

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Q-4 Fill the sample mean and standard deviation and draw OGIVE

Days to maturity	Frequency <i>f</i>	Class mark <i>x</i>
30–39	3	34.5
40–49	1	44.5
50–59	8	54.5
60–69	10	64.5
70–79	7	74.5
80–89	7	84.5
90–99	4	94.5