S. M. Benzir Ahmed

Solutions For Assignment 01

STA 101

Problame01

Range: 20
MD: 4.56
SD: 6.1245

Problame02

CV of A: 20.63%
CV of B: 16.07%
Since the value of CV of A is 20.63% more than that of B 16.07%. Therefore, B should get the prize.

Problame03

i) Mean (Model A) : 5.12 year
Mean (Model A) : 6.16 year

ii) Since the value of CV of Model A is 157.62% more than that of Model B 83.44%. Therefore, Model B has greater uniformity.

Problame04

(i) Total Wage
Firm A: 240000Rs.
Firm B: 285000Rs.

Firm B pays a larger wage bill.

(ii) Since the value of CV of Firm A is 83.33% less than that of Firm B 131.58%. Therefore, Firm B has greater variability in individual wages.

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69% observations

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97.35% observations

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a) 95%
b) 47.5%
2.5%

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a) 350
b) Q1 = 175, Q3 = 930
c) 930 – 175 = 755
d) Less than 0 or more than about 2060
e) No outliers
f) The distribution is positively skewed

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a) Mean: 173.77
Median: 195
SD: 105.61
b) CV: 60.78%
SK: -0.603 (As, SK<0, so it is negatively skewed.)
c) L45 = 192.9
L82 = 276.8
d) There is a slight negative skew ness visible, but no outliners.