VU LEARNING HUB

STA641 Assignment 1 Solution

Fall 2026

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Name: VU Learning Hub Due Date: 15 November 2026

Question 1: Frequency Distribution (Interval = 8)

The lowest IQ score is 90 and the highest IQ score is 160. Range = 160 - 90 = 70. With interval 8, the number of classes is 70 / 8 = 8.75, so 9 classes are formed.

Class	Frequency
90-97	6
98-105	11
106-113	1
114-121	2
122-129	2
130-137	4
138-145	4
146-153	2
154-161	6
Total	38

Question 2: Mid Points, Relative Frequency, Percentage Relative Frequency and Mean

Class Boundaries	Frequency	Mid Points	Relative Frequency	Percentage Relative Frequency	FX
5-10	4	7.5	0.0274	2.74%	30
10-15	7	12.5	0.0479	4.79%	87.5
15-20	15	17.5	0.1027	10.27%	262.5
20-25	32	22.5	0.2192	21.92%	720
25-30	38	27.5	0.2603	26.03%	1045
30-35	50	32.5	0.3425	34.25%	1625
Total	146				3770

Mean of the Data

Mean = Sum of FX / N = 3770 / 146 = 25.82

Histogram

