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STA301 Assignment 1 Solution

Fall 2026

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STA301 — Statistics and Probability

Assignment No. 1 — Fall 2026 | Sample Solution

Question 1: Stem-and-Leaf Display

Ages in ascending order: 18, 26, 27, 30, 31, 33, 35, 38, 49, 52.

Stem	Leaf
1	8
2	6 7
3	0 1 3 5 8
4	9
5	2

Key: 1 | 8 means 18 years. Stem = tens digit, Leaf = ones digit.

Question 2: Harmonic Mean

Harmonic Mean H.M. = n / (1/x1 + 1/x2 + ... + 1/xn)

1/20 + 1/30 + 1/40 + 1/50 + 1/60 = 30/600 + 20/600 + 15/600 + 12/600 + 10/600 = 87/600 = 29/200 = 0.145

H.M. = 5 / 0.145 = 1000/29 = 34.48 km/h (approximately).

The rider’s average speed across the five routes is 34.48 km/h.

Question 3: Frequency Table

Class Limits	Frequency (f)	Midpoint (x)	Relative Frequency
10–14	2	12	0.0833
15–19	4	17	0.1667
20–24	6	22	0.25
25–29	8	27	0.3333
30–34	3	32	0.125
35–39	1	37	0.0417
TOTAL	24		1.00

Midpoint (x) = (Lower limit + Upper limit) / 2; Relative Frequency = f / 24.