

NAME: Sagayoc, Armando B Jr

CLASS SCHEDULE: MTh 1:30-3:00pm DATE: April 15, 2025

1. In a survey of farmers in Apo Macote, Managok, Dalwangan, Busdi, Can-ayan and Linabo, it was found out that out of 54 respondents their average age is the following:

4										
0	62	63	60	59	58	29	46	54	49	68
2										
6	62	52	38	37	47	49	45	58	49	55
4										
2	43	40	52	38	56	67	46	43	45	63
7										
0	47	47	47	67	34	39	45	42	79	67
3										
4	45	58	56	59	59	48	34	24	52	

- a. Set-up a frequency distribution table using the lowest observation as the lower limit of the first interval.

Range: $R = H - L$ $H: 79, L: 24$ $R = 79 - 24$ $R = 55$	Class: $k = 1 + 3.322 \log n$ $k = 1 + 3.322 \log(54)$ $k = 1 + 3.322 * 1.732$ $k = 1 + 5.755$ $k \approx 6.755$ $k = 7$	Class Width: $c = R / k$ $c = 55 / 7$ $c \approx 7.86$ $c = 8$
---	---	---

Class	Tally	Frequency	Class Interval	Class Marks (x)	<cf	>cf
72 - 79	I	1	71.5-79.5	75.5	54	1
64 - 71	IIII	5	63.5-71.5	76.5	53	6
56 - 63	IIII - IIII - III	13	55.5-63.5	59.5	48	19
48 - 55	IIII - IIII	9	47.5-55.5	51.5	35	28
40 - 47	IIII - IIII - IIII - I	16	39.5-47.5	43.5	26	44
32 - 39	IIII - II	7	31.5-39.5	35.5	10	51
24 - 31	III	3	23.5-31.5	27.5	3	54
	Total:	54				