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Nombre del profesor: Jorge Enrique Albores

Nombre del trabajo: datos agrupados

Materia: bioestadística

Grado: 4° cuatrimestre

Grupo: B

Comitán de Domínguez Chiapas a 13 de noviembre del 2020

Nombre: Liketh Pérez Mendez

Datos agrupados "# 1 ejercicio"

50	49	20	30	47
24	46	34	48	25
20	33	49	40	35
31	39	43	43	30
28	25	20	44	31

Rango = $\frac{\#\text{mayor} - \#\text{menor}}{\text{intervalo}}$

Rango = $\frac{50 - 20}{6}$

Rango = $\frac{30}{6}$

Rango = 5

Intervalo

20 25 = 3
25 30 = 4
30 35 = 5
35 40 = 2
40 45 = 4
45 50 = 7

25

Intervalos	f_i	%f_i	f_{ia}	%f_{ia}	$\bar{x}_i$	$f_i \bar{x}$	x^2	$f_i \bar{x}^2$
20 - 25	3	12%	3	12%	22.5	67.5	506.25	1518.75
25 - 30	4	16%	7	28%	27.5	110	756.25	3025
30 - 35	5	20%	12	48%	32.5	162.5	1056.25	5281.25
35 - 40	2	8%	14	56%	37.5	75	1406.25	2812.5
40 - 45	4	16%	18	72%	42.5	170	1806.25	7225
45 - 50	7	28%	25	100%	47.5	332.5	2256.25	15793.75

= 25

$\Sigma f_i \bar{x} = 917.5$ $\Sigma f_i \bar{x}^2 = 35636.25$

Nombre: Izeleth Pérez Mendez

"Procedimiento del ejercicio #1"

"%fi"

(3 ÷ 25) * 100 = 12%
(4 ÷ 25) * 100 = 16%
(5 ÷ 25) * 100 = 20%
(2 ÷ 25) * 100 = 8%
(4 ÷ 25) * 100 = 16%
(7 ÷ 25) * 100 = 28%

"%fia"

(3 ÷ 25) * 100 = 12%
(7 ÷ 25) * 100 = 28%
(12 ÷ 25) * 100 = 48%
(14 ÷ 25) * 100 = 56%
(18 ÷ 25) * 100 = 72%
(25 ÷ 25) * 100 = 100%

$\overline{x_i}$

(20 + 25) ÷ 2 = 22.5
(25 + 30) ÷ 2 = 27.5
(30 + 35) ÷ 2 = 32.5
(35 + 40) ÷ 2 = 37.5
(40 + 45) ÷ 2 = 42.5
(45 + 50) ÷ 2 = 47.5

"fi"

(22.5 * 3 = 67.5
27.5 * 4 = 110
32.5 * 5 = 162.5
37.5 * 2 = 75
42.5 * 4 = 170
47.5 * 7 = 332.5

$(22.5)^2$ = 506.25
$(27.5)^2$ = 756.25
$(32.5)^2$ = 1056.25
$(37.5)^2$ = 1406.25
$(42.5)^2$ = 1806.25
$(47.5)^2$ = 2256.25

fi.$\overline{x_i}$

506.25 * 3 = 1518.75
756.25 * 4 = 3025
1056.25 * 5 = 5281.25
1406.25 * 2 = 2812.5
1806.25 * 4 = 7225
2256.25 * 7 = 15793.75

Nombre: Lizbeth Pérez Mendez

Datos agrupados # 2 ejercicio

80	75	71	80	71	44
38	56	80	72	68	45
70	40	75	41	53	54
78	42	66	45	64	38
55	56	73	56	41	64
38	67	79	44	44	58

Rango = $\frac{\#\text{mayor} - \#\text{menor}}{7}$

Rango = $\frac{80-38}{7}$

Rango = $\frac{42}{7}$

Rango = 6 amplitud

Intervalo

38 44 - 8
44 50 - 5
50 56 - 3
56 62 - 4
62 68 - 4
68 74 - 5
74 80 - 7

Intervalos	f_i	% f_i	F_i	% F_i	$\bar{x}_i$	$f_i \bar{x}_i$	$\bar{x}_i^2$	$f_i \bar{x}_i^2$
38 - 44	8	22.22%	8	22.22%	41	328	1681	13448
44 - 50	5	13.88%	13	36.11%	47	235	2209	11045
50 - 56	3	8.33%	16	44.44%	53	159	2809	8427
56 - 62	4	11.11%	20	55.55%	59	236	3481	13924
62 - 68	4	11.11%	24	66.66%	65	260	4225	16900
68 - 74	5	13.88%	29	80.55%	71	355	5041	25205
74 - 80	7	19.44%	36	100%	77	2772	5929	41503

$\sum f_i = 36$ $\sum f_i \bar{x}_i = 4345$ $\sum f_i \bar{x}_i^2 = 130452$

"Procedimiento del ejercicio 2"

Lizbeth Pérez Mendez

%f:

(8 ÷ 36) * 100 = 22.22%
(5 ÷ 36) * 100 = 13.88%
(3 ÷ 36) * 100 = 8.33%
(4 ÷ 36) * 100 = 11.11%
(4 ÷ 36) * 100 = 11.11%
(5 ÷ 36) * 100 = 13.88%
(7 ÷ 36) * 100 = 19.44%

%f:a

(8 ÷ 36) * 100 = 22.22
(13 ÷ 36) * 100 = 36.11
(16 ÷ 36) * 100 = 44.44
(20 ÷ 36) * 100 = 55.55
(24 ÷ 36) * 100 = 66.66
(29 ÷ 36) * 100 = 80.55
(36 ÷ 36) * 100 = 100

$\overline{x}$:

(38 + 44) = 41
(44 + 50) = 47
(50 + 56) = 53
(56 + 62) = 59
(62 + 68) = 65
(68 + 74) = 71
(74 + 80) = 77

f:$\overline{x}$

41 * 8 = 328
47 * 5 = 235
53 * 3 = 159
59 * 4 = 236
65 * 4 = 260
71 * 5 = 355
77 * 7 = 2772

x^2

$(41)^2$ = 1681
$(47)^2$ = 2209
$(53)^2$ = 2809
$(59)^2$ = 3481
$(65)^2$ = 4225
$(71)^2$ = 5041
$(77)^2$ = 5929

f.$\overline{x2}$

1681 * 8 = 13448
2209 * 5 = 11045
2809 * 3 = 8427
3481 * 4 = 13924
4225 * 4 = 16900
5041 * 5 = 25205
5929 * 7 = 41503