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Nombre del trabajo: Tabla de frecuencia

Materia: bioestadística

Grado: 4to

Grupo: "B"

DATOS AGROPADOS 3er PARCIAL

50	49	25	50	47
29	46	34	48	25
20	33	49	40	33
31	39	43	43	35
28	23	20	44	31

$$\text{Rango} = \frac{50 - 20}{6} = 5$$

$$N = 25$$

Intervalo	Fi	% Fi	Fid	% Fid	\bar{x}_i	$F_i \bar{x}_i$	\bar{x}_i^2	$F_i \bar{x}_i^2$
20-25	3	12%	3	16%	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	2812.25
40-45	4	16%	18	72%	42.5	170	1806.25	7,225
45-50	7	28%	25	100%	47.5	332.5	2,256.25	15793.75

$$\sum F_i \bar{x}_i = 917.5$$

$$\sum F_i \bar{x}_i^2 = 35656.25$$

* PROCIDIMIENTO *

• % de Frecuencia.

$$\textcircled{1} \frac{3}{25} \times 100 = 12\% \quad \textcircled{2} \frac{4}{25} \times 100 = 16\% \quad \textcircled{3} \frac{5}{25} \times 100 = 20\% \quad \textcircled{4} \frac{2}{25} \times 100 = 8\%$$

$$\textcircled{5} \frac{4}{25} \times 100 = 16\% \quad \textcircled{6} \frac{7}{25} \times 100 = 28\%$$

• % de Frecuencia acumulada.

$$\textcircled{1} \frac{3}{25} \times 100 = 16\% \quad \textcircled{2} \frac{7}{25} \times 100 = 28\% \quad \textcircled{3} \frac{12}{25} \times 100 = 48\% \quad \textcircled{4} \frac{14}{25} \times 100 = 56\%$$

$$\textcircled{5} \frac{18}{25} \times 100 = 72\% \quad \textcircled{6} \frac{25}{25} \times 100 = 100\%$$

• Marca de clase (\bar{x}_i).

$$\textcircled{1} \frac{20+25}{2} = 22.5 \quad \textcircled{2} \frac{25+30}{2} = 27.5 \quad \textcircled{3} \frac{30+35}{2} = 32.5$$

DATOS AGROPADOS 3er PARCIAL

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$$\sum F_i \bar{x}_i = 917.5$$

$$\sum F_i \bar{x}_i^2 = 35656.25$$

* PROCIDIMIENTO *

1ER EJERCICIO

$$\textcircled{1} \frac{35 | 40}{2} = 37.5 \quad \textcircled{2} \frac{40 | 45}{2} = 42.5 \quad \textcircled{3} \frac{45 | 50}{2} = 47.5$$

• Frecuencia por marca de clase ($F_i \bar{x}_i$)

$$\begin{aligned} \textcircled{1} 3 \times 22.5 &= 67.5 & \textcircled{2} 5 \times 32.5 &= 162.5 & \textcircled{3} 4 \times 42.5 &= 170 \\ \textcircled{4} 4 \times 27.5 &= 110 & \textcircled{5} 2 \times 37.5 &= 75 & \textcircled{6} 7 \times 47.5 &= 332.5 \end{aligned}$$

Total = $\sum F_i \bar{x}_i$ 917.5

• Marca de clase al cuadrado

$$\begin{aligned} \textcircled{1} 22.5^2 &= 506.25 & \textcircled{2} 32.5^2 &= 1056.25 & \textcircled{3} 42.5^2 &= 1806.25 \\ \textcircled{4} 27.5^2 &= 756.25 & \textcircled{5} 37.5^2 &= 1406.25 & \textcircled{6} 47.5^2 &= 2,256.25 \end{aligned}$$

• (Frecuencia) (marca de clase)²

$$\begin{aligned} \textcircled{1} (3)(506.25) &= 1518.75 & \textcircled{2} (5)(1056.25) &= 5281.25 \\ \textcircled{3} (4)(756.25) &= 3025 & \textcircled{4} (2)(1406.25) &= 2812.5 \\ \textcircled{5} (4)(1806.25) &= 7,225 & \textcircled{6} (7)(2,256.25) &= 15793.75 \end{aligned}$$

TABLA DE FRECUENCIA

31 10 2020.

80	75	71	80	71	44
38	56	80	42	68	45
70	40	75	41	55	54
78	42	66	45	64	58
55	56	73	56	41	64
38	67	79	49	44	38

Rango = $\frac{80 - 38}{7} = 6$

N = 36.

Intervalo	Fi	% Fi	Ti	% Ti	\bar{x}_i	Fi \bar{x}_i
38 - 44	8	22.22	8	22.22	41	328
44 - 50	5	13.88	13	36.11	47	235
50 - 56	3	8.33	16	44.44	53	159
56 - 62	4	11.11	20	55.55	59	236
62 - 68	4	11.11	24	66.66	65	260
68 - 74	5	13.88	29	80.55	71	355
74 - 80	7	19.44	36	100	77	539

$\sum Fi = 36.$

$\sum Fi\bar{x}_i = 2112.$

PROCEDIMIENTO

% de Frecuencia

\bar{x}_i^2	Fi \bar{x}_i^2
1681	13,448
2209	11,045
2809	8,427
3,481	13,924
4,225	16,900
5,041	25,205
5929	41,503

$\sum \bar{x}_i^2 = 130,452.$

$\frac{8}{36} \times 100 = 22.22$ $\frac{5}{36} \times 100 = 13.88$

$\frac{3}{36} \times 100 = 8.33$ $\frac{4}{36} \times 100 = 11.11$

$\frac{5}{36} \times 100 = 13.88$ $\frac{7}{36} \times 100 = 19.44$

% de Frecuencia acumulada

$\frac{8}{36} \times 100 = 22.22$ $\frac{13}{36} \times 100 = 36.11$ $\frac{16}{36} \times 100 = 44.44$

2do EJERCICIO

$\frac{20}{36} \times 100 = 55.55$ $\frac{24}{36} \times 100 = 66.66$ $\frac{29}{36} \times 100 = 80.55$

$\frac{36}{36} \times 100 = 100.$

Marca de clase

$\frac{38 + 44}{2} = 41$ $\frac{44 + 50}{2} = 47$ $\frac{50 + 56}{2} = 53$ $\frac{56 + 62}{2} = 59$

$\frac{62 + 68}{2} = 65$ $\frac{68 + 74}{2} = 71$ $\frac{74 + 80}{2} = 77$

(Frecuencia) (Marca de clase) $\sum Fi\bar{x}_i = 2112$

(8)(41) = 328 (5)(47) = 235 (3)(53) = 159 (4)(59) = 236

(4)(65) = 260 (5)(71) = 355 (7)(77) = 539

Marca de clase²

$41^2 = 1681$ $47^2 = 2209$ $53^2 = 2809$ $59^2 = 3,481$

$65^2 = 4,225$ $71^2 = 5041$ $77^2 = 5929.$

(Frecuencia) (Marca de clase)²

(8)(1681) = 13,448 (5)(2,209) = 11,045 (3)(2809) = 8,427

(4)(3481) = 13,924 (4)(4,225) = 16,900 (5)(5041) = 25,205.

(7)(5929) = 41,503. $\sum Fi\bar{x}_i^2 = 130,452.$