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Albores

Nombre del trabajo: Datos Agrupos

Materia: Bioestadística

Grado: 4

PASIÓN POR EDUCAR

Grupo: A

Esmeralda Ejercicio ①

| | | | | |
|----|----|----|----|----|
| 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 |

Rango = $\frac{\text{No mayor} - \text{No menor}}{\text{N}^\circ \text{ intervalo}}$

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

| Intervalo | frecuencia | % fi | fia | % fia |
|-----------|------------|------|-----|-------|
| 20-25 | - 3 | 12% | 3 | 12% |
| 25-30 | - 4 | 16% | 7 | 36% |
| 30-35 | - 5 | 20% | 12 | 48% |
| 35-40 | - 2 | 8% | 14 | 56% |
| 40-45 | - 4 | 16% | 18 | 72% |
| 45-50 | - 7 | 28% | 25 | 100% |
| | 25 | | | |

Exercicio Esmeralda
①

| Intervalo | f_i frecuencia | % f_i | f_{iA} | % f_{iA} | \bar{x}_i | $f_i \bar{x}_i$ | \bar{x}_i^2 | $f_i \bar{x}_i^2$ |
|-----------|---------------------|---------|----------|------------|-------------|-----------------------------|---------------|------------------------------------|
| 20-25 | 3 | 12% | 3 | 12% | 22.5 | 67.5 | 506.25 | 1,518.75 |
| 25-30 | 4 | 16% | 7 | 36% | 27.5 | 110 | 756.25 | 3,025 |
| 30-35 | 5 | 20% | 12 | 48% | 32.5 | 162.5 | 1,056.25 | 5,281.25 |
| 35-40 | 2 | 8% | 14 | 56% | 37.5 | 75 | 1,406.25 | 2,812.5 |
| 40-45 | 4 | 16% | 18 | 72% | 42.5 | 170 | 1,806.25 | 7,225 |
| 45-50 | 7 | 28% | 25 | 100% | 47.5 | 332.5 | 2,256.25 | 15,793.75 |
| | | | | | | $\sum f_i \bar{x}_i = 1000$ | | $\sum f_i \bar{x}_i^2 = 35,656.25$ |

Ejercicio 2

Esmeralda

| | | | | | |
|----|----|----|----|----|----|
| 80 | 75 | 71 | 80 | 71 | 44 |
| 38 | 56 | 80 | 42 | 68 | 49 |
| 70 | 40 | 75 | 41 | 53 | 51 |
| 78 | 42 | 66 | 45 | 64 | 58 |
| 55 | 56 | 73 | 56 | 41 | 64 |
| 38 | 67 | 79 | 49 | 44 | 38 |

$$\text{Rango} = \frac{\text{No mayor} - \text{No menor}}{\text{No intervalo}}$$

$$\text{Rango} = \frac{80 - 38}{4} = 6 - ai$$

| Intervalo | ^{seaman} fi | % fi | fiu | % fiu |
|-----------|-------------------------|--------|-----|--------|
| 38-44 | 8 | 22.22% | 8 | 22.22% |
| 44-50 | 5 | 13.88% | 13 | 36.11% |
| 50-56 | 3 | 8.33% | 16 | 44.44% |
| 56-62 | 4 | 11.11% | 20 | 55.55% |
| 62-68 | 4 | 11.11% | 24 | 66.66% |
| 68-74 | 5 | 13.88% | 29 | 80.55% |
| 74-80 | 7 | 19.44% | 36 | 100% |
| | $\Sigma fi = 36$ | | | |

Ejercicio 2

Esmeraldas

| Intervalo | f_i frecuencia | $\% f_i$ | f_{ia} | $\% f_{ia}$ | \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 | 1,681 | 13,448 |
| 44-50 | 5 | 13.89% | 13 | 36.11% | 47 | 235 | 2,209 | 11,045 |
| 50-56 | 3 | 8.33% | 16 | 44.44% | 53 | 159 | 2,809 | 8,427 |
| 56-62 | 4 | 11.11% | 20 | 55.55% | 61 | 244 | 3,721 | 14,884 |
| 62-68 | 4 | 11.11% | 24 | 66.66% | 65 | 260 | 4,225 | 16,900 |
| 68-74 | 5 | 13.89% | 29 | 80.55% | 71 | 355 | 5,041 | 25,205 |
| 74-80 | 7 | 19.44% | 36 | 100% | 77 | 539 | 5,929 | 41,503 |
| | 1 | | | | | $\sum f_i \bar{X}_i = 2,348$ | | $\sum f_i \bar{X}_i^2 = 172,224$ |