

DATOS

AGRUPADOS

50, 49, 25, 50, 47

29, 46, 34, 48, 25

20, 33, 49, 40, 33

31, 34, 43, 43, 35

28, 23, 20, 44, 31

Numero Mayor: 50

Numero Menor: 20

Numero de intervalo: 6

Formula:

$$\text{Rango} = \frac{\text{Nu. Mayor} - \text{Nu. Menor}}{\text{Nu. intervalo}}$$

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

| Intervalo | f_i | $\%f_i$ | 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 | 28% | 27.5 | 110 | 756.25 | 3,025 |
| 30-35 | 5 | 20% | 12 | 48% | 32.5 | 162.5 | 1056.25 | 5,281.25 |
| 35-40 | 2 | 8% | 14 | 56% | 37.5 | 75 | 1406.25 | 2,812.5 |
| 40-45 | 4 | 16% | 18 | 72% | 42.5 | 170 | 1806.25 | 7,225 |
| 45-50 | 7 | 28% | 25 | 100% | 47.5 | 332.5 | 2256.25 | 1,5793.75 |
| | | | | | | <u>917.5</u> | | <u>35,656.25</u> |

80, 75, 71, 80, 71, 44

38, 56, 80, 42, 68, 45

70, 40, 75, 41, 53, 54

78, 42, 66, 45, 64, 58

55, 56, 73, 56, 47, 64

38, 67, 79, 49, 44, 48

Numero maior: 80

Numero Menor: 38

Numero de intervalo: 7

Formula

$$\text{Rango} = \frac{\text{Nu. maior} - \text{Nu. menor}}{\text{Nu. Intervalo.}}$$

$$\text{Rango} = \frac{80 - 38}{7} = 6 \frac{2}{7}$$

| Intervalo | f_i | $\%f_i$ | 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 | 1681 | 13,448 |
| 44-50 | 5 | 13.88% | 13 | 36.11% | 47 | 235 | 2209 | 11,045 |
| 50-56 | 3 | 8.33% | 16 | 44.44% | 53 | 159 | 2809 | 8,427 |
| 56-62 | 4 | 11.11% | 20 | 55.55% | 59 | 236 | 3481 | 13,924 |
| 62-68 | 4 | 11.11% | 24 | 66.66% | 65 | 260 | 4225 | 16,900 |
| 68-74 | 5 | 13.88% | 29 | 80.55% | 71 | 355 | 5041 | 25,205 |
| 74-80 | 7 | 19.44% | 36 | 100% | 77 | 539 | 5929 | 41,503 |
| | | | | | | <u>2,112</u> | | <u>130,452</u> |