

UDS

Nombre del alumno:

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Nombre del maestro:

Ing. Abel Estrada Dichi.

Nombre de la actividad:

Ejercicio

Materia:

Estadística

Carrera:

Contaduría pública.

Actividad 3 - plataforma

Se tiene los datos de 50 comercios de Ocosingo y las ventas reportadas tras el buen fin en miles de pesos.

15, 50, 8, 17, 90, 20, 110, 40, 25, 18, 9, 86,
94, 120, 34, 27, 19, 38, 65, 79, 85, 33, 44, 56,
49, 13, 22, 38, 91, 86, 40, 51, 30, 80, 63, 55,
26, 24, 35, 62, 83, 42, 29, 19, 17, 10, 68, 44,
9, 10
8, 9, 9, 10, 10, 13, 15, 17, 17, 18, 19, 19, 20, 22,
24, 25, 26, 27, 29, 30, 33, 34, 35, 38, 38, 40,
40, 42, 44, 44, 49, 50, 51, 55, 56, 62, 63, 65,
68, 79, 80, 83, 85, 86, 86, 90, 91, 94, 110, 120

$$K = 1 + 3.322 (\log 50)$$

$$K = \underline{7}$$

$$\text{Rango} = V_{\max} - V_{\min}$$

$$R = 120 - 8 = \underline{112}$$

$$\text{Amplitud} = \frac{R}{K}$$

$$A = \frac{112}{7} = \underline{16}$$

freigelegt = = beibehalten

$$\bar{X} = \frac{\sum f_i M_i}{n}$$

$$\bar{X} = \underline{45.92}$$

$$\bar{X} = \frac{2,296}{50}$$

$$S^2 = \frac{\sum f_i (M_i - \bar{X})^2}{n-1}$$

$$S^2 = \frac{39,683.64}{50-1}$$

$$S^2 = \underline{809.870}$$

$$S^2 = \frac{39,683.64}{49}$$

$$S = \sqrt{S^2}$$

$$S = \underline{28.458}$$

$$S = \sqrt{809.870}$$

$$CV = \frac{S}{\bar{X}} \times 100$$

$$CV = \underline{61.972}$$

$$CV = \frac{28.458}{45.92} \times 100$$

| Interval | F_i | $F_r \div n$ | $F_r \times 100$ | FPA | M_i | $F_i \cdot M_i$ | $M_i - \bar{x}$ | $(M_i - \bar{x})^2$ | $F_i(M_i - \bar{x})^2$ |
|----------|-------|--------------|------------------|-------|-------|-----------------|-----------------|---------------------|------------------------|
| 8-23 | 14 | 0.28 | 28 | 28 | 15.5 | 217 | -30.42 | 925.376 | 12,955.26 |
| 24-39 | 14 | 0.28 | 28 | 50 | 31.5 | 346.5 | -14.42 | 207.936 | 2,287.30 |
| 40-55 | 9 | 0.18 | 18 | 68 | 47.5 | 427.5 | 1.58 | 2.496 | 22.46 |
| 56-71 | 5 | 0.1 | 10 | 78 | 63.5 | 317.5 | 17.58 | 309.056 | 1,545.28 |
| 72-87 | 6 | 0.12 | 12 | 90 | 79.5 | 477 | 33.58 | 1,127.616 | 6,765.69 |
| 88-103 | 3 | 0.06 | 6 | 96 | 95.5 | 286.5 | 49.58 | 2,458.176 | 7,374.52 |
| 104-120 | 2 | 0.04 | 4 | 100 | 112 | 224 | 66.08 | 4,366.566 | 8,733.13 |
| Total | 50 | 1 | 100 | | | 2,296 | | | 39,683.64 |