

INSTITUTO PRIVADO RAFAEL ARÉVALO MARTÍNEZ

**IPRAM**



**Litzy Rosita De León Ramírez**

**4to Perito en Admón. de Empresas**

**Catedra: Estadística**

**Catedrático: Josué Estrada**

**TAREA No.1**

**Ciclo Escolar:**

**2,021**

# SEMANA 1

| K | L     | A <sub>q</sub> | L <sub>vi</sub> | L <sub>vs</sub> | X <sub>s</sub> | F  | F <sub>q</sub> | F <sub>Xs</sub> |
|---|-------|----------------|-----------------|-----------------|----------------|----|----------------|-----------------|
| 1 | 34-42 |                | 33.5            | 42.5            | 38             | 2  | 2              | 76              |
| 2 | 43-51 |                | 42.5            | 51.5            | 47             | 3  | 5              | 141             |
| 3 | 52-60 |                | 51.5            | 60.5            | 56             | 8  | 13             | 448             |
| 4 | 61-69 |                | 60.5            | 69.5            | 65             | 13 | 26             | 845             |
| 5 | 70-78 |                | 69.5            | 78.5            | 74             | 10 | 36             | 740             |
| 6 | 79-87 |                | 78.5            | 87.5            | 83             | 3  | 39             | 249             |
| 7 | 88-96 |                | 87.5            | 96.5            | 92             | 6  | 45             | 552             |
|   |       |                |                 |                 |                | 45 |                | 3051            |

$$\bar{X} = \frac{\sum F X_s}{N}$$

$$\bar{X} = \frac{3051}{45} = 67.80^*$$

$$M_d = L_{vi} + \left( \frac{N/2 - f_{qa}}{f} \right) i; \quad 45/2 = 22.5$$

$$M_d = 60.5 + \left( \frac{22.5 - 13}{13} \right) 9$$

$$M_d = 60.5 + \left( \frac{9.5}{13} \right) 9$$

$$M_d = 60.5 + (0.73) 9$$

$$M_d = 60.5 + 6.57$$

$$M_d = 67.07^*$$

$$M_o = L_{vi} + \left( \frac{\Delta_1}{\Delta_1 + \Delta_2} \right) \quad \begin{matrix} \Delta_1 = 13 - 8 = 5 \\ \Delta_2 = 13 - 10 = 3 \end{matrix}$$

$$M_o = 60.5 + \left( \frac{5}{5+3} \right) 9$$

$$M_0 = 60.5 + \left(-\frac{5}{8}\right) 9$$

$$M_0 = 60.5 + (0.63) 9$$

$$M_0 = 60.5 + 5.67$$

$$M_0 = 66.17^*$$

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