

INSTITUTO PRIVADO  
RAFAEL AREVALO MARTINEZ



NOMBRE:

Zabdy Andrea Apén García

GRADO:

4to. Admón.

CURSO:

Estadística

CATEDRÁTICO:

Josué Estrada

TAREA: #7

Puntajes obtenidos por 36 alumnos en un examen de Cálculo Matemático de Quinto Rango Contador.

| LA       | L <sub>vi</sub> | L <sub>vs</sub> | X <sub>s</sub> | f | F <sub>0</sub> | f x x <sub>s</sub> |
|----------|-----------------|-----------------|----------------|---|----------------|--------------------|
| 52 - 58  | 51.5            | 58.5            | 55             | 9 | 9              | 495                |
| 59 - 65  | 58.5            | 65.5            | 62             | 4 | 13             | 248                |
| 66 - 72  | 65.5            | 72.5            | 69             | 6 | 19             | 414                |
| 73 - 79  | 72.5            | 79.5            | 76             | 9 | 28             | 684                |
| 80 - 86  | 79.5            | 86.5            | 83             | 5 | 33             | 415                |
| 87 - 93  | 86.5            | 93.5            | 90             | 2 | 35             | 180                |
| 94 - 100 | 93.5            | 100.5           | 97             | 1 | 36             | 97                 |

Media Aritmética

$$\tilde{X} = \frac{f x s}{N} \quad \bar{X} = \frac{2533}{36} = 70.36$$

Mediana

$$Md = L_{vi} + \left( \frac{\frac{N}{2} - f_{aa}}{f} \right) i$$

$$Md = 65.5 + \left( \frac{18 - 13}{6} \right) 7$$

$$Md = 65.5 + \left( \frac{5}{6} \right) 7$$

$$Md = 65.5 + (0.83) 7$$

$$Md = 65.5 + 5.81$$

$$Md = 71.31$$

Moda

$$M_o = L_{vi} + \left( \frac{\Delta_1}{\Delta_1 + \Delta_2} \right) i$$

$$M_o = 72.5 + \left( \frac{3}{3+4} \right) i$$

$$M_o = 72.5 + \left( \frac{3}{7} \right) 7$$

$$\Delta_1 = 9 - 6 = 3$$

$$\Delta_2 = 9 - 5 = 4$$

$$M_o = 72.5 + (0.43) 7$$

$$M_o = 72.5 + 3.01$$

$$M_o = 75.51$$