



**INSTITUTO PRIVADO RAFAEL
AREVALO MARTINEZ**

**CATEDRATICO:
JOSUE ESTRADA**

**CURSO:
ESTADISTICA**

**NOMBRE:
ZABDY ANDREA APEN GARCIA**

**GRADO:
4TO. ADMON**

**TAREA #5 DE ESTADISTICA
DECILES**

Deviles

Puntos obtenidos por 43 alumnos en un Examen de Ciencias Naturales.

Intervalo	Lr ⁱ	f	f _a
54 - 58	53.5	4	4
59 - 63	58.5	6	10
64 - 68	63.5	12	22
69 - 73	68.5	13	35
74 - 78	73.5	3	38
79 - 83	78.5	4	42
84 - 88	83.5	1	43

D₂
D₃ D₄
D₇ D₈

$$D_2 = Lr_i + \left(\frac{\frac{N_2}{10} - f_a}{f} \right) \cdot h \quad \frac{43 \times 2}{10} = 8.6$$

$$D_2 = 58.5 + \left(\frac{8.6 - 4}{6} \right) \cdot 5$$

$$D_2 = 58.5 + \left(\frac{4.6}{6} \right) \cdot 5$$

$$D_2 = 62.5$$

$$D_2 = 58.5 + (0.77) \cdot 5$$

$$D_2 = 58.5 + 3.85$$

$$D_3 = Lr_i + \left(\frac{\frac{N_3}{10} - f_a}{f} \right) \cdot h \quad \frac{43 \times 3}{10} = 12.9$$

$$D_3 = 63.5 + \left(\frac{12.9 - 10}{12} \right) \cdot 5$$

$$D_3 = 64.7$$

$$D_3 = 63.5 + \left(\frac{2.9}{12} \right) \cdot 5$$

$$D_3 = 63.5 + (0.24) \cdot 5$$

$$D_3 = 63.5 + 1.2$$

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$$D_4 = L_n + \left(\frac{\frac{N_4}{10} - f_0}{f} \right) i$$

$$\frac{43 \times 4}{10} = 17.2$$

$$D_4 = 63.5 + \left(\frac{17.2 - 10}{12} \right) 5$$

$$D_4 = 63.5 + \left(\frac{7.2}{12} \right) 5$$

$$D_4 = 66.5$$

$$D_4 = 63.5 + (0.6) 5$$

$$D_4 = 63.5 + 3$$

$$D_7 = L_n + \left(\frac{\frac{N_7}{10} - f_0}{f} \right) i$$

$$\frac{43 \times 7}{10} = 30.1$$

$$D_7 = 68.5 + \left(\frac{30.1 - 22}{13} \right) 5$$

$$D_7 = 68.5 + \left(\frac{8.1}{13} \right) 5$$

$$D_7 = 68.5 + (0.62) 5$$

$$D_7 = 68.5 + 3.1$$

$$D_7 = 71.6$$

$$D_8 = L_n + \left(\frac{\frac{N_8}{10} - f_0}{f} \right) i$$

$$\frac{43 \times 8}{10} = 34.4$$

$$D_8 = 68.5 + \left(\frac{34.4 - 22}{13} \right) 5$$

$$D_8 = 68.5 + \left(\frac{12.4}{13} \right) 5$$

$$D_8 = 68.5 + (0.95) 5$$

$$D_8 = 68.5 + 4.75$$

$$D_8 = 73.25$$

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4th Admin

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