

Instituto Privado Arévalo Martínez.



Asignatura: Estadística I.

Profesor: Josué Estrada.

Alumna: María Isabel Palacios Barrios.

Carrera: 4to. Bachillerato en Computación con Orientación Comercial.

Sección: ''A''

Ciclo Escolar: 2021.

Trabajo: Actividades Tercera Unidad/ Lección 5- Semana 23.

FORMULA

$$D_x = U_{ri} + \left(\frac{N_x - F_{aci}}{10} \right) F$$

Actividad 5: Semana 23

Puntajes obtenidos por 43 alumnos en un examen de Ciencias Naturales. Complete la siguiente tabla y calcule los deciles 2, 3, 4, 7 y 8.

Puntajes obtenidos por 43 alumnos en un examen de Ciencias Naturales.

Intervalo	U _{ri}	F	F _{ci}	
54 - 58	53.5	4	4	
59 - 63	58.5	6	10	D ₂
64 - 68	63.5	12	22	D ₃ , D ₄
69 - 73	68.5	13	35	D ₇ , D ₈
74 - 78	73.5	3	38	
79 - 83	78.5	4	42	
84 - 88	83.5	1	43	

Deal 2

$$D_2 = Lrit + \left(\frac{N_2 - Fao}{10} \right) i$$

$$2 * 43 = \frac{86}{10} = 8.6$$

$$D_2 = 58.5 + (8.6 - 4) i$$

$$D_2 = 58.5 + (4.6) i$$

$$D_2 = 58.5 + (0.77) i$$

$$D_2 = 58.5 + 3.8 i$$

$$D_2 = 62.35 //$$

Deal 3

$$D_3 = Lrit + \left(\frac{N_3 - Fao}{10} \right) i$$

$$3 * 43 = \frac{129}{10} = 12.9$$

$$D_3 = 63.5 + (12.9 - 10) i$$

$$D_3 = 63.5 + (2.9) i$$

$$D_3 = 63.5 + (0.24) i$$

$$D_3 = 63.5 + 1.2 i$$

$$D_3 = 64.7 //$$

Decal 4

$$D_x = Lri + \left(\frac{Nx}{10} - \text{facl} \right) i \quad \frac{4 \times 43}{10} = \frac{172}{10} = 17.2$$

$$D_4 = 63.5 + \left(\frac{17.2}{12} \right) s$$

$$D_4 = 63.5 + \left(\frac{1.42}{12} \right) s$$

$$D_4 = 63.5 + 0.142s$$

$$D_4 = 63.5 + 3$$

~~$$D_4 = 66.5$$~~

Decal 7

$$D_x = Lri + \left(\frac{Nx}{10} - \text{facl} \right) i \quad \frac{7 \times 43}{10} = \frac{301}{10} = 30.1$$

$$D_7 = 68.5 + \left(\frac{30.1 - 22}{12} \right) s$$

$$D_7 = 68.5 + \left(\frac{8.1}{12} \right) s$$

$$D_7 = 68.5 + 0.683s$$

$$D_7 = 68.5 + 2.1$$

~~$$D_7 = 71.6$$~~

Deal 8

$$Dx = Uri + \left(\frac{Nx}{10} - Fad \right) i \quad 8 \times 43 = \frac{344}{10} = 34.4$$

$$D8 = 68.5 + \left(\frac{34.4 - 22}{13} \right) s$$

$$D8 = 68.5 + \left(\frac{12.4}{13} \right) s$$

$$D8 = 68.5 + (0.9s) s$$

$$D8 = 68.5 + 4.7s$$

$$\underline{DR = 73.25} //$$