Actividad 5 Rafael Antonio Arreaga Fonseca

Calcular
deciles
2, 3, 4, 7, 8

Puntees obtenidos por 43 alumnos en un examen de ciencias Naturales

Intervalo	xi	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

Decil

$\frac{43}{10} \times 2 = 8.6$

$D2 = 58.5 + \left(\frac{8.6-4}{6}\right) 5$

$D2 = 58.5 + \left(\frac{4.6}{6}\right) 5$

$D2 = 58.5 + (0.77)\,5$

$D2 = 58.5 + 3.85$

$D2 = 62.35$

Rafael Antonio Arreaga

[illegible] de folio No. 7

		Q.	5400.00
Q.	5400.00	Q.	5400.00

12

1155.00

Decil 3

$\frac{43}{10} \times 3 = 12.9$

$D3 = 63.5 + \left(\frac{12.9 - 10}{12}\right)5$

$D3 = 63.5 + \left(\frac{2.9}{12}\right)5$

$D3 = 63.5 + (0.24)5$

$D3 = 63.5 + 1.2$

$D3 = 64.7$

Decil 4

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

$D4 = 63.5 + \left(\frac{17.2 - 10}{12}\right) 5$

$D4 = 63.5 + \left(\frac{7.2}{12}\right) 5$

$D4 = 63.5 \ (0.60) 5$

$D4 = 63.5 + 3$

$D4 = 66.5$

Decil 7

$\frac{43}{10} \times 7 = 30.7$

$D7 = 68.5 + \left(\frac{30.7 - 22}{13}\right)5$

$D7 = 68.5 + \left(\frac{8.7}{13}\right)5$

$D7 = 68.5 + (0.62)5$

$D7 = 68.5 + 3.7$

$D7 = 77.6$

Decil 8

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

$D8 = 68.5 + (\frac{34.4 - 22}{13}) 5$

$D8 = 68.5 + (\frac{12.4}{13}) 5$

$D8 = 68.5 + (0.95) 5$

$D8 = 68.5 + 4.75$

$D8 = 73.25$