

Tarea

Semana #1

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Instrucciones: Elabore una tabla de distribución de Frecuencias de valores agrupados en intervalos y calcule media aritmética, mediana y moda con los siguientes datos.

Puntos obtenidos por 45 alumnos en un examen de matemática financiera.

34	55	58	64	66	69	76	78	87	89
36	56	60	65	68	70	76	78	87	89
45	56	60	65	67	74	77	78	88	90
45	56	62	66	67	74	77	85	88	90
48	57	63	63	68					

$$K = 1 + 3.322 \log(n)$$

$$K = 1 + 3.322 \log(45)$$

$$K = 1 + 3.322 (1.56321)$$

$$K = 1 + 5.19$$

$$K = 6.49$$

$$R = D_{ma} - D_{me} + 1$$

$$R = 90 - 34 + 1$$

$$R = 56 + 1$$

$$R = 57$$

$$i = \frac{57}{6.49} = 8.78 = 9$$

20.	k_i	k_s	x_s	P	Pq	$\sum x_s$
34-42	33.5	42.5	38	2	2	76
43-51	42.5	51.5	47	3	5	141
52-60	51.5	60.5	56	8	13	448
61-69	60.5	69.5	65	13	26	845
70-78	69.5	78.5	74	10	36	740
79-87	78.5	87.5	83	3	39	249
88-96	87.5	96.5	92	6	45	552
						$\sum x_s = 305$

$$Md = k_i + \left(\frac{N/2 - Pq}{P} \right)$$

$$45/2 = 22.5$$

$$\bar{X} = \frac{\sum P x_s}{N}$$

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

$$- Md = 60.5 + \left(\frac{22.5 - 13}{13} \right) q$$

$$- Md = 60.5 + (0.73) q \quad M = 60.5 + 6.57$$

$$- M = 67.07$$

$$- Mo = k_i = \left(\frac{A_1 + A_2}{2} \right); \quad A_1 = 13 - 8 = 5 \quad A_2 = 13 - 10 = 3$$

$$- Mo = 60.5 + \left(\frac{5}{5+3} \right) q \quad Mo = 60.5 + \left(\frac{5}{8} \right) q \quad Mo = 60.5 + 6.63$$

$$Mo = 60.5 + 5.67$$

$$\{ Mo = 66.17 \}$$