

Instituto Privado

Rafael Arévalo Martínez

Nombre:

Katherin Jimena Muñoz Salazar

Grado:

4to. Administración de Empresas

Catedrático:

Josué Estrada

Curso:

Estadística

vaşmaga ch= 12 / 07 / 2021

3. bloq



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

34	55	58	64	66	69	76	78	85	89
36	56	60	65	67	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	66	68					

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

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

$$K = 1 + 3.322 (1.6532)$$

$$K = 1 + 5.49$$

$$K = 6.49$$

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

$$R = 90 - 34 + 1$$

$$R = 56 + 1$$

$$R = 57$$

$$i = \frac{R}{K}$$

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

$$i = 8.78$$

$$i = 9$$

vij.m.j.ch 13 103 12021

K	L - A	f	fa
1	34 - 42	2	2
2	43 - 51	3	5
3	52 - 60	8	13
4	61 - 69	13	26
5	70 - 78	10	36
6	79 - 87	3	39
7	88 - 97	6	45

L. A	Lri	Lrs	xs	f	fa	fxs
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 - 97	87.5	97.5	92	6	45	559

$$\Sigma fxs = 3051$$

$$\bar{x} = \frac{\Sigma fxs}{N}$$

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

$$Md = Lri + \left(\frac{N/2 - fa}{f} \right) i \quad 45/2 = 22.5$$

$$Md = 60.5 + \left(\frac{22.5 - 13}{13} \right) 9 =$$

v.g.m.g.m. 14/07/2021

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

$$Md = 60.5 + \left(\frac{9.5}{13} \right) q \quad Md = 60.5 + (0.73)q$$

$$Md = 60.5 + 6.57 \quad Md = \underline{\underline{67.07}}$$

$$Mo = Lr + \left(\frac{\Delta_1}{\Delta_1 + \Delta_2} \right) i$$

$$\Delta_1 = 13 - 8 = 5$$

$$\Delta_2 = 13 - 10 = 3$$

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

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

$$Mo = 60.5 + (0.63)q$$

$$Mo = 60.5 + 5.67$$

$$Mo = \underline{\underline{66.17}}$$