

INSTITUTO PRIVADO RAFAEL ARÉVALO MARTÍNEZ

Nombre:

Katherin Jimena Muñoz Salazar

Grado:

4to. Administración de Empresas

Catedrático:

Josue Estrada

Curso:

Estadística

TAREA 6

Katherin Muñoz

V.j.m.j. Ch. 19/10/2021

Puntajes obtenidos por 30 alumnos en PdF de F.

X	F	xs	Fxs	d = xs-x̄	F d	(xs-x̄)²	F(xs-x̄)²
45-49	1	47	47	28.4	28.4	806.56	806.56
50-54	1	52	52	23.4	23.4	547.56	547.56
55-59	1	57	57	18.4	18.4	338.56	338.56
60-64	3	62	186	13.4	40.2	179.56	538.68
65-69	2	67	134	8.4	16.8	70.56	141.12
70-74	5	72	360	3.4	17	11.56	57.8
75-79	5	77	385	1.6	8	2.56	12.8
80-84	4	82	328	6.6	26.4	43.56	174.24
85-89	5	87	437	11.6	58	134.56	672.8
90-94	3	92	276	16.6	49.8	275.56	826.68
	30		2,262		286.4		4,116.8

$$\bar{x} = \frac{2,262}{30} = 75.4$$

$$V = \frac{11.71}{75.4} \times 100 = 1.55\%$$

$$DM = \frac{286.4}{30} = 9.55$$

$$S = \sqrt{\frac{4,116.8}{30}}$$

$$S = \sqrt{137.23}$$

$$S = 11.71$$

$$V = \frac{S}{\bar{x}} \times 100$$