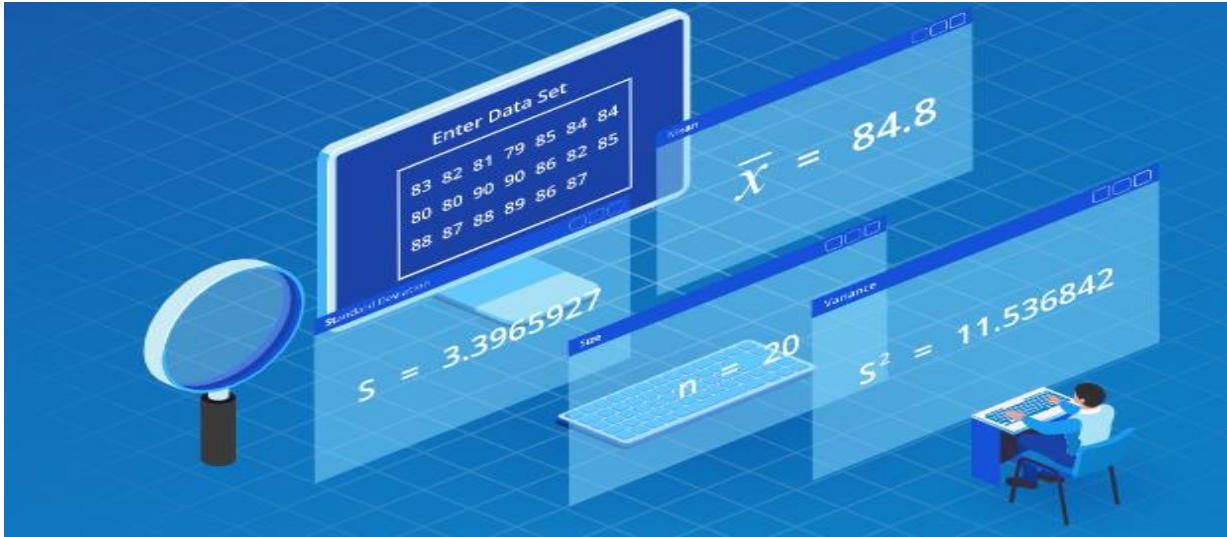


PROBABILIDAD Y ESTADÍSTICA

Ing. JORGE SEBASTIÁN DOMÍNGUEZ



JOSÉ MANUEL MARTÍNEZ VALDEZ
QUINTO CUATRIMESTRE
BACHILLERATO EN RECURSOS HUMANOS
ACTIVIDAD DE PLATAFORMA 3
MARZO DEL 2024.



valores 55

TABLA DE FRECUENCIAS

Xi	fi	Fi	fr	%	xi*fi	Σx^2
5	3	3	0.05	5	15	75
6	4	7	0.13	13	24	144
8	4	11	0.20	20	32	256
12	6	17	0.31	31	72	864
13	2	19	0.35	35	26	338
15	4	23	0.42	42	60	900
16	3	26	0.47	47	48	768
20	7	33	0.60	60	140	2800
25	9	41	0.75	75	225	5000
32	2	43	0.78	78	64	2048
35	3	46	0.84	84	105	3675
40	2	48	0.87	87	80	3200
45	4	51	0.93	93	180	6075
75	2	53	0.96	96	150	11250
347	55	421			1221	37393

Media:

$$X = \frac{1221}{55} = 22.2$$

Mediana:

$$Me = 20$$

Moda:

$$Mo = 25$$

CONJUNTO DE LA POBLACION

$$30\% = P_{30} = \frac{(30)(55)}{100} = \frac{1650}{100} = 16.5 \quad 17 \quad 12$$

$$55\% = P_{55} = \frac{(55)(55)}{100} = \frac{3025}{100} = 30.25 \quad 30 \quad 20$$

$$75\% = P_{75} = \frac{(75)(55)}{100} = \frac{4125}{100} = 41.25 \quad 41 \quad 25$$

RANGO, VARIANZA Y DESVIACIÓN ESTANDAR

$$s^2 = \frac{\sum_i^N (X_i - \bar{X})^2}{n - 1}$$

$$S^2 = \frac{37393 - \frac{1221^2}{55}}{55 - 1} = \frac{37393 - ((1221 * 1221) / 55)}{54}$$

$$S^2 = \frac{37393 - (1490841/55)}{54} = \frac{37393 - 27106.2}{54} = \boxed{190.496296} \text{ Varianza}$$

$$S = \sqrt{190.49} = \boxed{13.8} \text{ Desviación Estándar}$$

RANGO:

$$75 - 5 = \boxed{70}$$