

NOMBRE DEL ALUMNO: JUAN JOSE PEREZ MENDEZ

CARRERA: CONTADURIA PUBLICA Y FINANZAS

CATEDRATICO: JORGE ENRIQUE ALBORES AGUILAR

MATERIA: ESTADISTICA

CUTRIMESTRE: 1ER ,SEMIESCOLARIZADO

ACTIVIDADES:

MEDIA, MEDIANA,

MODA, BARIANZA

DESVIACION ESTANDAR

FECHA: 19/NOVIEMBRE /2021

JUAN JOSE PEREZ MENDEZ

FECHA: 14-NOV-2021

ESTADISTICA

Ejercicio 1

40	56	45	50	50	50
55	60	55	67	49	58
60	62	54	50	50	58
62	50	50	46	48	60
47	50	65	49	40	64
40	49	62	63	44	72
50	50	78	65	50	70
50	54	84	62	45	68

40 40 40 44 45 45 46 47 48 49 49 49 50 50 50 50
50 50 50 50 50 54 54 55 55 55 55 56 56 58 58 59
60 60 60 62 62 63 63 64 65 65 67 68 70 72 78 84

$$\sum F_i = 2671$$

$$n = 48$$

$$\sum F_i^2 = 152840$$

MEDIA

$$\bar{x} = \frac{\sum F_i}{n} \quad \bar{x} = \frac{2671}{48} = 55.64$$

JUAN JOSE PEREZ MENDOZA

FECHA: 14-NOV-2021

ESTADÍSTICA

MEDIANA

$$n = 48$$

$$\frac{n}{2}, \frac{n}{2} + 1 \rightarrow \frac{48}{2}, \frac{48}{2} + 1 \rightarrow 24, 25$$
$$\frac{55 + 55}{2} = \frac{110}{2} = 55$$

$$MO = 50$$

BIANZA

$$S^2 = \frac{\sum Fi^2 - (\sum Fi)^2}{n-1}$$

$$S^2 = \frac{152840 - \frac{(2671)^2}{48}}{n-1} = \frac{152840 - 2671^2 \div 48}{47} = 89.57$$

DESVIACIÓN ESTANDAR

$$\sqrt{S^2 = \frac{\sum Fi^2 - (\sum Fi)^2}{n-1}}$$

$$\sqrt{89.57} = 9.46$$

JUAN JOSE PEREZ MENDEZ

FECHA: 15-NOV-2021

ESTADÍSTICA

Ejercicio 2

27	40	44	35	34	67	35	35
35	87	35	44	44	55	87	45
40	35	60	78	35	78	35	56
78	44	60	76	55	54	88	67
35	35	76	89	77	86	44	77
44	40	82	35	66	94	35	78
56	85	35	70	77	90	77	35

27	34	35	35	35	35	35	35	35	35	35
35	35	35	35	38	40	40	40	44	44	44
44	44	44	45	54	55	55	56	56	57	60
66	66	67	70	76	76	77	77	78	78	78
78	80	80	82	85	86	87	87	88	89	90
94										

$$\sum F_i = 3211 \quad n = 56$$
$$\sum F_i^2 = 207513$$

MEDIA

$$\bar{X} = \frac{\sum F_i}{n} =$$

$$\bar{X} = \frac{3211}{56} = 57.33$$

JUAN JOSE PEREZ MENDEZ

FECHA: 15-NOV-2021

ESTADÍSTICA

MEDIANA

$$\frac{n}{2}, \frac{n}{2} + 1 \text{ par} \quad n=56$$

$$\frac{56}{2}, \frac{56}{2} + 1$$

$$28, 29$$

$$\frac{55 + 55}{2} = \frac{110}{2} = 55$$

$$MO = 35$$

VARIANZA

$$s^2 = \frac{\sum F_i^2 - \frac{(\sum F_i)^2}{n}}{n-1}$$

$$s^2 = \frac{207513 - \frac{(3211)^2}{56}}{55}$$

$$s^2 = \frac{207513 - (3211)^2 \div 56}{55} = 425.39$$

DESVIACION ESTANDAR

$$\sqrt{s^2 = \frac{\sum F_i^2 - \frac{(\sum F_i)^2}{n}}{n-1}}$$

$$\sqrt{425.39} = 20.62$$