

MATERIA

ESTADISTICA

NOMBRE:

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JUNREZ

Ejercicio 1

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

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

Datos

$$\sum f_i = 2670$$

$$\sum f_i^2 = 152842$$

$$n = 48$$

media

$$\bar{x} = \frac{\sum f_i}{n}$$

$$\bar{x} = \frac{2670}{48} = 55.6$$

mediana

$$me = \frac{n+1}{2} \text{ impar}$$

$$\frac{n'}{2} \quad \frac{n+1}{2} \text{ Par}$$

$$\frac{48}{2} \quad \frac{48+1}{2}$$

55, 55

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

moda  
 $M_0 = 50$

Varianza

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

$$s^2 = 152842 - \frac{(2670)^2}{48}$$

$$= 91.98$$

$$s^2 = 9.5$$

Ejercicio 2

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

27	35	40	44	60	77	85
34	35	40	45	66	78	86
35	35	40	54	66	78	87
35	35	44	55	67	78	88
35	35	44	56	70	78	89
35	35	44	56	76	80	84
35	38	44	57	76	80	90
				77	82	94

Datos

$$\sum f_i = 3208$$

$$\sum f_i^2 = 207512$$

$$n = 56$$

media

$$\bar{x} = \frac{\sum f_i}{n}$$

$$\bar{x} = \frac{3208}{56} = 57.28$$

mediana

$$me = \frac{n+1}{2} \text{ impar}$$

$$\frac{n'}{2} \quad \frac{n+1}{2} \text{ Par}$$

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

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

moda

$$M_0 = 35$$

Varianza

$$S^2 = \frac{\sum f_i^2}{n} - \left( \frac{\sum f_i}{n} \right)^2$$

$$S^2 = 207512 - \left( \frac{3208}{56} \right)^2 = 431$$

$$S^2 = 20.77$$