

Nombre del Alumno

Sofía Yamileth Guillén Flores

Nombre del Maestro

Jorge Enrique Albores

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Ejercicios

Materia

Probabilidad y Estadística

Grado

Quinto Cuatrimestre

Grupo

Único

Sofia Yamileth Guillen Flores

09-Marzo-2022

46	56	45	56	50	50
58	60	55	61	49	51
60	65	51	50	56	58
63	50	50	46	48	60
47	50	65	49	45	64
40	49	62	58	44	72
55	50	78	65	55	70
60	54	84	62	45	68

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

$347 + 345 + 418 + 457 + 404 + 341 = 2670$

1600	2301	2500	3025	3600	4225
1600	2101	2500	3025	3600	4225
1600	2101	2300	3025	3600	4489
1936	2101	2300	3136	3844	4621
2025	2500	2300	3136	3844	4900
2025	2500	2916	3364	3969	5181
2116	2500	2916	3364	3969	6081
2209	2500	3025	3481	4096	7056

$15,111 + 19,379 + 21,559 + 25,556 + 30,522 + 40,789 = 152,840$

• media:

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

$\bar{x} = \frac{2670}{48} = 55.62 //$

$\sum f_i = 2670$

$\sum f_i^2 = 152840$

$n = 48$

• mo: 50 //

• var:

$\frac{n}{2} + \frac{n}{2} + 1 = \frac{48}{2} + \frac{48}{2} + 1 = 24 + 24 + 1 = 49$

$= 55 //$

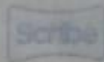
$\frac{55 + 55}{2} = \frac{110}{2}$

• variancia: $S^2 = \frac{\sum f_i^2}{n} - \frac{(\sum f_i)^2}{n^2}$

$S^2 = \frac{152840}{48} - \frac{(2670)^2}{48^2} = 91.94 //$

• Desviación:

$= 9.5 //$



Sofia Kimbleth (ballen) Ploco

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

27	35	44	55	78	82
34	35	44	56	76	85
55	55	44	57	77	86
35	35	44	60	78	87
35	40	44	66	78	84
35	40	54	66	78	90
35	40	55	70	80	74

$276 + 240 + 207 + 177 + 170 + 170 + 107 = 2411$

729	1225	1456	2025	5796	6724
1156	1225	1736	5136	5796	7325
1225	1225	1936	5536	5796	7576
1225	1600	1936	3600	6084	7559
1225	1600	2916	4356	6084	7921
1225	1600	3025	4900	6400	8066

$8010 + 9700 + 15621 + 26921 + 42877 + 53711 = 156841$

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

$\sum f_i = 2411$
 $\sum f_i^2 = 156841$
 $n = 42$

$\bar{x} = \frac{2411}{42} = 57.40 //$

• par:

$\frac{n}{2} + \frac{n}{2} + 1 = \frac{42}{2} + \frac{42}{2} + 1 = 21 + 21 + 1 = 21 + 22$
 $\frac{55 + 55 \cdot 110}{2}$
 $= 55 //$

• Variancia: $S^2 = \frac{\sum f_i^2 - (\sum f_i)^2}{n-1}$

Desviacion: $20.47 //$

$S^2 = \frac{156841 - (2411)^2}{42} = 419.04 //$

