



**Nombre de alumnos: Ochoa Alvarado  
Andrea**

**Nombre del profesor: Albores Aguilar Jorge  
Enrique**

**Nombre del trabajo: Problemas**

**Materia: PROBABILIDAD Y ESTADISTICA**

**Grado: 5**

**Grupo: A**

Comitán de Domínguez Chiapas.

Andrés Osorio Alvarado Ejercicio 1

79	75	71	74	71	44
45	56	79	42	68	45
70	41	75	41	53	54
78	42	66	45	64	58
55	56	73	56	42	64
45	67	79	49	44	45
90	87	80	85	90	84

Rango =  $\frac{90-41}{5} = \frac{48}{5} = 10.1 = 9$   
 5 intervalo

Intervalo	fi	% fi	Fio	Fio %	$\bar{x}_i$	$f_i \bar{x}_i$	$\bar{x}_i^2$	$f_i \bar{x}_i^2$
41 - 50	13	30.95	13	30.95	45.5	591.5	2,070.25	26913.25
51 - 60	7	16.66	20	47.61	55.5	388.5	3,080.25	21561.75
61 - 70	6	14.28	26	61.90	65.5	393	4,290.25	25741.5
71 - 80	11	26.19	37	88.09	75.5	830.5	5,700.25	62702.75
81 - 90	5	11.90	42	100	85.5	427.5	7,310.25	36551.25
	42					2,0631		173490.5

$\bar{x} = \frac{2631}{4} = 65.75$

$ST = 172490.5$

$ME = \frac{\bar{x}}{2} = \frac{65.75}{2} = 32.875$

$\frac{(2631)^2}{42} = 211.14$

$MO = \frac{41+13-0}{2} = 27$

$S = \sqrt{14.53}$



Andrés Osorio Alvarado  
Ejercicio 2

15	100	65	38	49	72	45	76
100	92	63	45	67	85	50	89
90	100	98	69	77	88	66	90
56	98	88	65	88	94	63	97
100	49	80	92	92	38	78	94
73	56	84	78	100	47	84	50
38	52	91	67	49	68	92	45
91	72	100	45	56	74	100	50

Rango =  $\frac{100 - 38}{7} = 9.8$

Intervalo	fi	%fi	Fia	%Fia	$\bar{x}_1$	$\bar{x}_1^2$	$f_i \bar{x}_1^2$	$f_i \bar{x}$
38 - 46	8	12.5	8	12.5	42	1764	14112	336
47 - 55	8	12.5	16	25	51	2601	20808	408
56 - 64	5	7.81	21	32.81	60	3600	18000	300
65 - 73	9	14.06	30	46.87	69	4761	42849	621
74 - 82	7	10.93	37	56.81	78	6084	42588	546
83 - 91	11	17.18	48	75	87	7569	83259	957
92 - 100	16	25	64	100	96	9216	147456	1536
	<u>64</u>						<u>369072</u>	<u>4704</u>



Andrés Ochoa Alvarado Ejercicio 2

$$\bar{X} = \frac{4704}{64} = 73.5$$

$$Me = \frac{64}{2} = 32$$

$$\frac{74+32-30 \cdot 8}{2} = 76$$

$$Mo = \frac{92+16}{(16-11)+ (16-0)} \cdot 8 = 93.90$$

$$s^2 = \frac{369072 - \frac{(4704)^2}{64}}{64} = 2370.28$$

$$s = \sqrt{19.24}$$