Nombre de alumno (a): Roxana Belen López López

Nombre del profesor: Jorge Enrique Albores Aguilar

Nombre del trabajo: Ejercicios

Materia: Estadística Descriptiva

Grado: 3er cuatrimestre

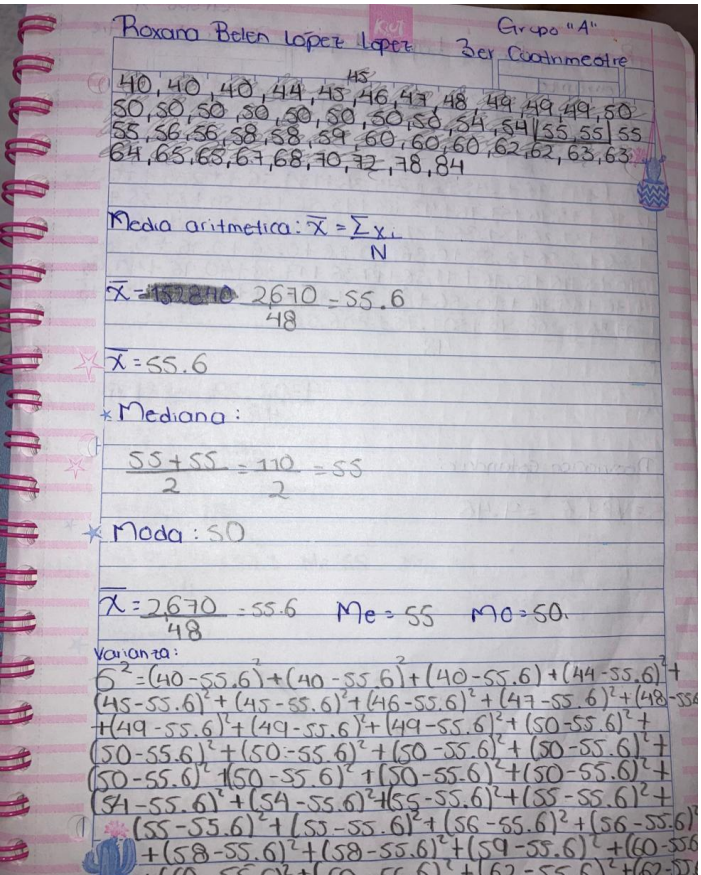
Grupo: “A”

Realice los cálculos de media, mediana, moda varianza, desviación estándar, para datos no agrupados.

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

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	76	55	54	88	67
35	35	76	89	80	86	44	77
44	40	82	35	66	94	35	78
56	85	35	70	77	90	80	35



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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

Media aritmetica: $\bar{X} = \frac{\Sigma x_i}{N}$

$\bar{X} = \frac{3211}{56} = 57.3$

Mediana:

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

Moda: 35

$\bar{X} = \frac{3211}{56} = 57.3$ Me: 55 Mo: 35

Varianza:

$\sigma^2 = (27-57.3)^2 + (34-57.3)^2 + (35-57.3)^2 + (35-57.3)^2 + (35-57.3)^2$
$+ (35-57.3)^2 + (35-57.3)^2 + (35-57.3)^2 + (35-57.3)^2 + (35-57.3)^2$
$+ (35-57.3)^2 + (35-57.3)^2 + (35-57.3)^2 + (35-57.3)^2 + (35-57.3)^2$
$+ (38-57.3)^2 + (40-57.3)^2 + (40-57.3)^2 + (40-57.3)^2 + (44-57.3)^2$
$+ (44-57.3)^2 + (44-57.3)^2 + (44-57.3)^2 + (44-57.3)^2 + (45-57.3)^2$
$+ (45-57.3)^2 + (54-57.3)^2 + (55-57.3)^2 + (55-57.3)^2 + (56-57.3)^2$
$+ (56-57.3)^2 + (57-57.3)^2 + (60-57.3)^2 + (66-57.3)^2 +$
$(66-57.3)^2 + (67-57.3)^2 + (70-57.3)^2 + (76-57.3)^2 +$

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$(76-57.3)^2 + (77-57.3)^2 + 77-57.3)^2 + (78-57.3)^2 +$
$(78-57.3)^2 + (78-57.3)^2 + (78-57.3) + (80-57.3) +$
$(80-57.3)^2 + (82-57.3)^2 + (85-57.3)^2 + (86-57.3)^2 +$
$(87-57.3)^2 + (87-57.3)^2 + (88)-57.3)^2 + (89-57.3)^2 +$
$(90-57.3)^2 + (94-57.3)^2$
56

$\sigma^2 = (978.09 + 542.89 + 497.29 + 497.29 + 497.29 +$
$497.29 + 497.29 + 497.29 + 497.29 + 497.29 +$
$497.29 + 497.29 + 497.29 + 497.29 + 497.29 +$
$372.49 + 299.29 + 299.29 + 299.29 + 176.89 +$
$176.89 + 176.89 + 176.89 + 176.89 + 176.89 +$
$151.29 + 10.89 + 5.29 + 5.29 + 1.69 + 1.69 +$
$0.09 + 7.29 + 75.69 + 75.69 + 94.09 + 161.29 +$
$349.69 + 349.69 + 388.09 + 388.09 + 428.49 +$
$428.49 + 428.49 + 428.49 + 515.29 + 515.29$
$+ 610.09 + 767.29 + 823.69 + 882.09 + 882.09$
$+ 942.49 + 1004.89 + 1069.29 + 1346.89$
56

Desviacion estandar: $\frac{23396.64}{56} = 417.79$

$\sigma^2 = \sqrt{417.79} = 20.44$