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Nombre del profesor: Jorge enrique albores Aguilar.

Nombre del trabajo: “datos no agrupados”

Materia: “estadística descriptiva en nutrición.”

Grado: “3er° cuatrimestre”

Grupo:” A”

Comitán de Domínguez Chiapas a 11de junio de 2021.

DATOS NO agrupados Ejercicio 2

Media: 27, 35, 40, 78, 35, 44, 56.

27, 35, 35, 40, 44, 56, 78. = $\frac{315}{7}$ = 45

Media: 45

Mediana: 27, 35, 40, 78, 35, 44, 56

27, 35, 35, 40, 44, 56, 78

medianas: 40. Mediana = 40

Moda: 27, 35, 40, 78, 35, 44, 56 Lourdes Jazmín perez perez

27, 35, 35, 40, 44, 56, 78

Mo = 35

Moda: 35

varianza: 27, 35, 40, 78, 35, 44, 56.

$(27-45)^2+(35-45)^2+(40-45)^2+(78-45)^2+(35-45)^2+(44-45)^2+(56-45)^2$

324 + 100 + 25 + 1089 + 100 + 1 + 121 = 1760

$\sqrt{1760}$ = 41.95 $\frac{1760}{315}$ = 5.58

Datos no agrupados

Media: 50, 54, 58, 60, 64, 72, 70, 68

50, 58, 54, 60, 64, 68, 70, 72 $= \frac{501}{8} = 62.625$

Media: 62.625

Mediana: 50, 54, 58, 60, 64, 72, 70, 68.

50, 58, 54, 60, 64, 68, 70, 72

promedio $\bar{x}$ $\frac{60+64}{2} = \frac{124}{2} = 62$

mediana: 62

moda: 50, 54, 58, 60, 64, 72, 70, 68

50, 58, 54, 60, 64, 68, 70, 72

Mo: No hay Moda

Moda: No hay Moda

Lourdes Jazmin perez perez

Varianza: 50, 54, 58, 60, 64, 72, 70, 68

$(50-62.625)^2+(54-62.625)^2+(58-62.625)^2+(60-62.625)^2+(64-62.625)^2+(72-62.625)^2+(70-62.625)^2+(68-62.625)^2$

$154.34+13.14+21.34+6.89+1.84+87.84+54.34+28.84 = 373.87$

$\sqrt{373.87} = 19.335$ $\frac{373.87}{501} = 0.74$

Datos no agrupados.

Media: 50, 44, 55, 48, 40, 44, 50, 45.

40, 44, 45, 48, 44, 50, 50, 55, $= \frac{381}{8} = 47.625$

Media: 47.625

Mediana: 50, 44, 55, 48, 40, 44, 50, 45

40, 44, 45, 48, 44, 50, 50, 55.

Promedio $\bar{x}$ $\frac{48+44}{2} = \frac{92}{2} = 46.5$

Mediana: 48.5

Moda: 50, 44, 55, 48, 40, 44, 50, 45
40, 44, 45, 48, 44, 50, 50, 55.

Mo: 50

Moda: 50

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Varianza: 50, 44, 55, 48, 40, 44, 50, 45

$(50-47.625)^2 + (44-47.625)^2 + (55-47.625)^2 + (48-47.625)^2 + (40-47.625)^2 + (44-47.625)^2 + (50-47.625)^2 + (45-47.625)^2$

$5.64 + 1.84 + 54.34 + 0.14 + 58.14 + 13.14 + 5.64 + 6.89 = 145.87$

$\sqrt{145.87} = 12.077$ $\frac{145.87}{381} = 0.38$

DATOS NO agrupados.

Media: 56, 67, 50, 46, 44, 58, 65, 62.

46, 44, 50, 56, 58, 62, 65, 67 = $\frac{453}{8}$ = 56.625

Media = 56.625

mediana: 56, 67, 50, 46, 44, 58, 65, 62.

46, 44, 50, 56, 58, 62, 65, 67

promedio $\bar{x}$ $\frac{56+58}{2} = \frac{114}{2} = 57$

Mediana = 57

moda: 56, 67, 50, 46, 44, 58, 65, 62

46, 44, 50, 56, 58, 62, 65, 67

Mo = No hay Moda

Moda: no hay Moda

Lourdes Jazmín perez perez

varianza: 56, 67, 50, 46, 44, 58, 65, 62

$(56-56.625)^2 + (67-56.625)^2 + (50-56.625)^2 + (46-56.625)^2 + (44-56.625)^2 + (58-56.625)^2 +$

$(65-56.625)^2 + (62-56.625)^2$

$0.34 + 107.64 + 43.84 + 112.84 + 58.14 + 1.89 + 70.14 + 28.89 = 423.87$

$\sqrt{423.87} = 20.58$ $\frac{423.87}{456} = 874.87$

DATOS no agrupados

Media: 45, 55, 54, 50, 65, 62, 78, 84.

45, 50, 54, 55, 62, 65, 78, 84. = $\frac{488}{8}$ = 61

Media: 61

Mediana: 45, 55, 54, 50, 65, 62, 78, 84.

45, 50, 54, 55, 62, 65, 78, 84.

promedio $\bar{x}$ $\frac{55+62}{2} = \frac{117}{2} = 58.5$

Mediana: 58.5

Moda: 45, 55, 54, 50, 65, 62, 78, 84.

45, 50, 54, 55, 62, 65, 78, 84.

Mo = No hay moda

Lourdes Jazmin perez perez

Moda: No hay moda.

Varianza: 45, 55, 54, 50, 65, 62, 78, 84.

$(45-61)^2 + (55-61)^2 + (54-61)^2 + (50-61)^2 + (65-61)^2 + (62-61)^2 + (78-61)^2 + (84-61)^2$

256 + 36 + 49 + 121 + 16 + 1 + 289 + 529 = 1247

$\sqrt{1247} = 36.01$ $\frac{1247}{488} = 2.65$

Datos no agrupados.

Media:

56, 60, 63, 50, 50, 44, 50, 54

44, 50, 50, 50, 54, 56, 60, 63 = $\frac{432}{8}$ = 54

Media: 54

Mediana: 56, 60, 63, 50, 50, 44, 50, 54.

44, 50, 50, 50, 54, 56, 60, 63.

promedio $\bar{x}$ $\frac{50+54}{2} = \frac{104}{2} = 52$

Mediana: 52

Moda: 56, 60, 63, 50, 50, 44, 50, 54.

44, 50, 50, 50, 54, 56, 60, 63.

Lourdes Juarán perez perez

Mo = 50

Moda: 50

Varianza: 56, 60, 63, 50, 50, 44, 50, 54.

$(56-54)^2 + (60-54)^2 + (63-54)^2 + (50-54)^2 + (50-54)^2 + (44-54)^2 + (50-54)^2 + (54-54)^2$

$4 + 36 + 81 + 16 + 16 + 25 + 16 + 0 = 194$

$\sqrt{194} = 13.928$ $\frac{194}{432} = 0.44$

Datos no agrupados.

Media:

40, 55, 60, 63, 47, 40, 55, 50.

40, 40, 47, 50, 55, 55, 60, 63. $= \frac{410}{8} = 51.25$

Media: 51.25

Mediana: 40, 55, 60, 63, 47, 40, 55, 50.

40, 40, 47, 50, 55, 55, 60, 63.

Promedio $\bar{x}$ $\frac{50+55}{2} = \frac{105}{2} = 52.5$

Mediana: 52.5

Moda = 40, 55, 60, 63, 47, 40, 55, 50. Lourdes Jazmin perez perez

40, 40, 47, 50, 55, 55, 60, 63.

Mo = 40, 55 Bimodal

Moda: 40, 55 Bimodal

varianza: 40, 55, 60, 63, 47, 40, 55, 50.

$(40-51.25)^2+(55-51.25)^2+(60-51.25)^2+(63-51.25)^2+(47-51.25)^2+(40-51.25)^2+(55-51.25)^2+(50-51.25)^2$

$126.56 + 14.06 + 76.56 + 138.06 + 18.06 + 126.56 + 14.06 + 1.56 = 515.48$

$\sqrt{515.48} = 22.704$ $\frac{515.48}{410} = 1.25$

Datos no agrupados ejercicio 2

media: 38, 45, 56, 67, 77, 78, 35.

35, 38, 45, 56, 67, 77, 78 = $\frac{396}{7}$ = 56.57

media: 56.57

Mediana: 38, 45, 56, 67, 77, 78, 35.

35, 38, 45, 56, 67, 77, 78.

mediana: 56

moda: 38, 45, 56, 67, 77, 78, 35.

35, 38, 45, 56, 67, 77, 78

Moda: no hay moda.

Lourdes Jazmin perez perez

Varianza: 38, 45, 56, 67, 77, 78, 35

$(38-56.57)^2 + (45-56.57)^2 + (56.56.57)^2 + (67-56.57)^2 + (77-56.57)^2 + (78-56.57)^2 + (35-56.57)^2$

344.84 + 133.86 + 0.32 + 108.78 + 417.38 + 459.24 + 465.26 = 1,929.68

$\sqrt{1,929.68} = 43.92$

$\frac{1,929.68}{396} = 4.87$

Datos no agrupados ejercicio 2

Media: 35, 87, 35, 88, 44, 35, 80

35, 35, 35, 44, 80, 87, 88 = $\frac{404}{7}$ = 57.71

Media: 57.71.

Mediana: 35, 87, 35, 88, 44, 35, 80

35, 35, 35, 44, 80, 87, 88

mediana: 44

Moda: 35, 87, 35, 88, 44, 35, 80

35, 35, 35, 44, 80, 87, 88

Lourdes Jazmin perez perez

Moda: 35.

Varianza: 35, 87, 35, 88, 44, 35, 80.

$(35-57.71)^2 + (87-57.71)^2 + (35-57.71)^2 + (88-57.71)^2 + (44-57.71)^2 + (35-57.71)^2 + (80-57.71)^2$

515.74 + 857.90 + 515.74 + 917.48 + 198.96 + 515.74 + 496.84 = 4,018.4

$\sqrt{4018.4} = 63.39$

$\frac{4018.4}{404} = 9.94$

Datos no agrupados ejercicio 2

Media: 57, 55, 78, 54, 86, 94, 90.

54, 55, 57, 78, 86, 90, 94. = $\frac{514}{7}$ = 73.42

Media: 73.42

Mediana: 57, 55, 78, 54, 86, 94, 90.

54, 55, 57, 78, 86, 90, 94.

Mediana: 78

Moda: 57, 55, 78, 54, 86, 94, 90

54, 55, 57, 78, 86, 90, 94.

Lourdes García Pérez Pérez

Moda: No hay Moda.

Varianza: 57, 55, 78, 54, 86, 94, 90.

$(57-73.42)^2 + (55-73.42)^2 + (78-73.42)^2 + (54-73.42)^2 + (86-73.42)^2 + (94-73.42)^2 + (90-73.42)^2$

264.61 + 339.24 + 20.97 + 377.13 + 158.25 + 423.53 + 274.84 = 1,863.67

$\sqrt{1863.67} = 43.17$ $\frac{1863.67}{514} = 3.62$

DATOS NO Agrupados ejercicio 2.

Media: 34, 44, 35, 55, 80, 66, 77.

34, 35, 44, 55, 66, 77, 80 = $\frac{341}{7}$ = 55.85

Media: 55.85

Mediana: 34, 44, 35, 55, 80, 66, 77.

34, 35, 44, 55, 66, 77, 80

Mediana: 55

Moda: 34, 44, 35, 55, 80, 66, 77.

34, 35, 44, 55, 66, 77, 80.

Moda: No hay moda.

Coutdes Jue-Min perez perez

Varianza: 34, 44, 35, 55, 80, 66, 77.

$(34-55.85)^2 + (44-55.85)^2 + (35-55.85)^2 + (55-55.85)^2 + (80-55.85)^2 + (66-55.85)^2 + (77-55.85)^2$

477.42 + 140.42 + 434.72 + 0.72 + 583.22 + 103.02 + 447.32 = 2186.84

$\sqrt{2186.84}$ = 46.76 $\frac{2186.84}{391}$ = 5.59

Datos no agrupados ejercicio 2

Media 35, 44, 78, 76, 84, 35, 70.

35, 35, 44, 70, 76, 78, 84 = $\frac{427}{7}$ = 61

Media: 61

Mediana: 35, 44, 78, 76, 84, 35, 70.

35, 35, 44, 70, 76, 78, 84

Mediana: 70

Moda: 35, 44, 78, 76, 84, 35, 70

35, 35, 44, 70, 76, 78, 84

Lourdes Jazmín Pérez Pérez

Moda: 35

Varianza: 35, 44, 78, 76, 84, 35, 70.

$(35-61)^2 + (44-61)^2 + (78-61)^2 + (76-61)^2 + (84-61)^2 + (35-61)^2 + (70-61)^2$

676 + 289 + 289 + 225 + 784 + 676 + 81 = 3,020

$\sqrt{3020} = 54.95$ $\frac{3,020}{426} = 7.08$

DATOS No agrupados ejercicio 2.

Media: 44, 35, 60, 66, 76, 82, 35.
35, 35, 44, 60, 66, 76, 82 = $\frac{348}{7}$ = 56.85

Media: 56.85

Mediana: 44, 35, 60, 66, 76, 82, 35,
35, 35, 44, 60, 66, 76, 82.

Mediana: 60

Moda: 44, 35, 60, 66, 76, 82, 35 — Cuando hay más de una moda
35, 35, 44, 60, 66, 76, 82.

Mo: 35

Moda: 35

Varianza: 44, 35, 60, 66, 76, 82, 35

$(44-56.85)^2 + (35-56.85)^2 + (60-56.85)^2 + (66-56.85)^2 + (76-56.85)^2 + (82-56.85)^2 + (35-56.85)^2$

165.12 + 1177.42 + 4.92 + 83.72 + 366.72 + 632.52 + 477.42 = 2,212.84

$\sqrt{2,212.84} = 47.04$ $\frac{2212.84}{398} = 5.55$

Datos no agrupados ejercicio 2.

Media = 40, 87, 35, 44, 35, 40, 85

35, 35, 40, 40, 44, 85, 87 = $\frac{366}{7}$ = 52.28

Media = 52.28

Mediana = 40, 87, 35, 44, 35, 40, 85.

35, 35, 40, 40, 44, 85, 87.

Mediana = 40

Moda = 40, 87, 35, 44, 35, 40, 85.

35, 35, 40, 40, 44, 85, 87

Mo: 35, 40

Moda = 35, 40 Bimodal

varianza = 40, 87, 35, 44, 35, 40, 85.

$(40-52.28)^2 + (87-52.28)^2 + (35-52.28)^2 + (44-52.28)^2 + (35-52.28)^2 + (40-52.28)^2 + (85-52.28)^2$

150.79 + 1205.47 + 248.54 + 68.55 + 248.54 + 150.79 + 1370.54 = 3243.37

$\sqrt{3,243.37}$ = 56.45 $\frac{3243.37}{366}$ = 8.86