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Nombre del trabajo:

(Datos no agrupados)

Materia:

Bioestadística

Grado:

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Grupo: A

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Espinosa García Víctor Hugo

Realice los calculos de media, mediana, moda, varianza, desviación estandar, para datos no agrupados

$\bar{X} = \frac{x_1 + x_2 + x_n}{n} =$ 27+34+35+35+35+35+35+35+35+35+35+35+35+38+40+40+40+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+99 $\frac{3,211}{56} = 57.33$

media = 51.33 mediana = $\frac{55+55}{2} = \frac{110}{2} = 55$ moda = 35

Varianza = 417.79 Desviación Estandar = 20.43

$\sigma^2 = \frac{(x-\bar{x})^2}{n} =$ (27-51.33)^2+(34-51.33)^2+(35-57.33)^2+(35-51.33)^2+(35-57.33)^2+(35-57.33)^2+(35-57.33)^2+(35-57.33)^2+(35-57.33)^2+(35-57.33)^2+(35-57.33)^2+(35-57.33)^2+(35-57.33)^2+(38-51.33)^2+(40-57.33)^2+(40-57.33)^2+(40-57.33)^2+(44-51.33)^2+(44-57.33)^2+(44-57.33)^2+(44-57.33)^2+(44-57.33)^2+(45-51.33)^2+(54-57.33)^2+(55-57.33)^2+(55-57.33)^2+(56-57.33)^2+(56-57.33)^2+(57-57.33)^2+(60-57.33)^2+(66-57.33)^2+(66-57.33)^2+(67.57.33)^2+(70-57.33)^2+(76-57.33)^2+(76-57.33)^2+(77-57.33)^2+(77-57.33)^2+(78-57.33)^2+(78-57.33)^2+(78-57.33)^2+(78-57.33)^2+(80-57.33)^2+(80-57.33)^2+(82-57.33)^2+(85-57.33)^2+(86-57.33)^2+(87-57.33)^2+(87-57.33)^2+(88-57.33)^2+(89-57.33)^2+(90-57.33)^2+(99-57.33)^2 $\frac{23,396.51}{56} = 417.79$

$\sqrt{417.79} = 20.43$

Victor Hugo Espinosa García

Realiza los calculos de media, mediana, moda, varianza y desviación estandar, en datos no agrupados

$\bar{X} = \frac{x_1 + x_2 + x_3}{n} = 46+56+45+56+50+50+55+60+55+67+49+59+60+63+54+50+55+58+63+50+50+46+48+60+47+50+65+49+40+64+46+49+62+58+44+72+55+50+78+65+50+70+50+54+69+62+45+68 = \frac{2,670}{48} = \frac{1335}{24} =$

media = 55.62

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

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

Moda = 50 Varianza = 94.33 Desviación = 9.71

$\sigma^2 = \frac{(X-\bar{X})^2}{n} = (40-55.62)^2+(40-55.62)^2+(40-55.62)^2+(44-55.62)^2+(45-55.62)^2+(45-55.62)^2+(46-55.62)^2+(47-55.62)^2+(48-55.62)^2+(49-55.62)^2+(49-55.62)^2+(49-55.62)^2+(50-55.62)^2+(50-55.62)^2+(50-55.62)^2+(50-55.62)^2+(50-55.62)^2+(50-55.62)^2+(50-55.62)^2+(50-55.62)^2+(50-55.62)^2+(54-55.62)^2+(54-55.62)^2+(55-55.62)^2+(55-55.62)^2+(55-55.62)^2+(55-55.62)^2+(56-55.62)^2+(56-55.62)^2+(58-55.62)^2+(58-55.62)^2+(59-55.62)^2+(60-55.62)^2+(60-55.62)^2+(60-55.62)^2+(62-55.62)^2+(62-55.62)^2+(63-55.62)^2+(63-55.62)^2+(64-55.62)^2+(65-55.62)^2+(65-55.62)^2+(67-55.62)^2+(68-55.62)^2+(70-55.62)^2+(70-55.62)^2+(72-55.62)^2+(78-55.62)^2+(84-55.62)^2$

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$\sigma^2 = \frac{4528}{48} = 94.33$ $\sigma = \sqrt{94.33} = 9.71$