UDS
PASIÓN POR EDUCAR

Nombre de alumnos: kinberli Gálvez Barrios

Nombre del profesor: Magner Joel Herrera

Nombre del trabajo: ejercicios

Materia: Estadística Descriptiva

Grado: Tercer cuatrimestre

Grupo: LAE

FRA. COMALAPA CHIAPAS A 15 JULIO DE 2020

famula: $\bar{X} = \frac{\Sigma xf}{N}$

21 x1 = 21
22 x4 = 88
23 x3 = 69
24 x1 = 24
25 x1 = 25

$= \frac{24 + 88 + 69 + 24 + 25}{10} = \frac{227}{10}$

$\bar{X} = \frac{227}{10} = 22.7$

$\bar{X} = 22.7$
$\sigma^2 = 1.21$
$\sigma = 1.1$
$Cv = 4.84\%$

Varianza Formula:

$\sigma^2 = \Sigma (X - \bar{X})^2 \cdot F$

$= X - \bar{X}^2$

	F	
$(21 - 22.7)^2 = 2.89$	x1 =	2.89
$(22 - 22.7)^2 = 0.49$	x4 =	1.96
$(23 - 22.7)^2 = 0.09$	x3 =	0.27
$(24 - 22.7)^2 = 1.69$	X1 =	1.69
$25 - 22.7)^2 = 5.29$	x1 =	5.29
		12.1

$\sigma^2 = \frac{12.1}{10}$

$\sigma^2 = 1.21$

Desviacion estandar

$\sigma = \sqrt{1.21}$

$\sigma = 1.1$

Coeficiente de varianz

$Cv = \frac{\sigma}{\bar{X}}$

$Cv = \frac{1.1}{22.7} = 0.0484 \times 10$

$Cv = 4.84\%$

formula $= \bar{x} = \frac{\Sigma x \cdot f}{n}$

$x \cdot F$

$4 \times 1 = 4$

$8 \times 4 = 32$

$12 \times 10 = 120$

$16 \times 3 = 48$

$20 \times 2 = 40$

$= \frac{4 + 32 + 120 + 48 + 40}{20} = \frac{244}{20}$

$\bar{x} = \frac{244}{20} = 12.2$

Formula para varianza

$\sigma^2 = \frac{\Sigma (x - \bar{x})^2 f}{n}$

$\bar{x} = 12.2$

$\sigma^2 = 15.16$

$f = 3.89$

$cv = 31.88\%$

$(x - \bar{x})^2$

$(4 - 12.2)^2 = 67.24 \times 1 = 67.24$

$(8 - 12.2)^2 = 17.64 \times 4 = 70.56$

$(12 - 12.2)^2 = 0.04 \times 10 = 0.4$

$(16 - 12.2)^2 = 14.44 \times 3 = 43.32$

$(20 - 12.2)^2 = 60.84 \times 2 = 121.68$

303.2

$\sigma^2 = \frac{303.2}{20}$

$\sigma^2 = 15.16$

Desviacion estandar

$\sigma = \sqrt{15.16}$

$\sigma = 3.89$

Coeficiente de varianza

$cv = \frac{\sigma}{\bar{x}}$

$cv = \frac{3.89}{12.2} = 0.3180 \times 100 = 31.88\%$

Formula: $\bar{x} = \frac{\Sigma x_1}{n}$

$\frac{2+2+4+4+5+5+6}{7} = \frac{28}{7}$

$\bar{X} = 4$ años

$\sigma^2 = 2$ años

$\sigma = 1.41$ años

$CV = 35.25\%$

Formula para varianza

$\sigma^2 = \frac{\Sigma (x_i - \bar{x})^2}{n}$

$\frac{(2-4)^2 + (2-4)^2 + (4-4)^2 + 4-4)^2 + (5-4)^2 + (5-4)^2 + (6-4)^2}{7}$

$\sigma^2 = \frac{(2)^2 + (2)^2 + (0)^2 + (0)^2 + (1)^2 + (1)^2 + (2)^2}{7}$

$\sigma^2 = \frac{4+4+0+0+1+1+4}{7}$

$\sigma^2 = \frac{14}{7} = 2$

Formula para desviación estandar

$\sigma = \sqrt{2}$

$\sigma = 1.41$

Formula para coeficiente de variacion

$CV = \frac{\sigma}{\bar{x}} = \frac{1.41}{4} = 0.3525$

$CV = .35 \times 100 = 35.25\%$