Nombre de alumno: Gerardo Israel Morales Rubio

Nombre del profesor: JORGE ENRIQUE ALBORES AGUILAR

Nombre del trabajo: reporte

Materia: MATEMÁTICAS FINANCIERAS

Grado: 4

Grupo: A

Comitán de Domínguez Chiapas a 19 de mayo de 2022

Ejercicio 1

Datos no agrupados

23	25	23	25	32	28	26
20	20	24	27	30	25	25
19	30	25	30	20	20	30
30	23	28	24	35	34	32
23	20	20	26	34	19	31
20	24	20	28	30	18	20
24	25	23	30	20	20	25

13-septiembre-2022

x1000

18	20	23	24	25	29	30
19	20	23	25	25	30	31
19	20	23	25	26	30	32
20	20	23	25	26	30	32
20	20	24	25	27	30	34
20	20	24	25	28	30	34
20	20	24	25	28	30	35
136	140	164	174	105	209	228

$\Sigma f_i = 1235$

$\Sigma \overline{f_i}^* = 32145$

$\sum f_i = 1235$

$\sum \bar{f_i}^2 = 32145$

$n = 49$

$\bar{x} = \dfrac{\sum f_i}{n} = \dfrac{1235}{49} = 25.20$

$Mc = \dfrac{n+1}{2}$ impar

$\dfrac{n}{2}$, $\dfrac{n+1}{2}$ impar

$\dfrac{28}{2}$, $\dfrac{28}{2}+1$, $\dfrac{20}{20}$

14 , $15 = \dfrac{20}{40+2} = 20$ Mc

$\dfrac{49+1}{2} = 25$ $Mz = 25$

$Mo = 20$ El que mas se repite.

$s^2 = \dfrac{\sum \bar{f_i}^2 - \dfrac{(\sum f_i)^2}{n}}{n-1}$

Calculadora

$s^2 = \dfrac{32145 - \dfrac{(1235)^2}{49}}{48}$

$32145 - (1235^2 \div 49) = \div 48 = 21.20$

$S = 4.60$

23	26	28	32	20	30
20	20	30	30	30	30
25	33	33	20	20	30
30	30	30	24	30	20
28	20	20	26	32	20

20	20	24	28	30	30
20	20	25	30	30	32
20	20	26	30	30	32
20	20	26	30	30	33
20	23	28	30	30	33

9 -20 -180
23-1   23
24-1   24
25-1   25
26-2   52
28-2   56
30-10   300
32-2   6 4
33-2   66 7

$\bar{x} = \frac{\Sigma fi}{n} =$

$\bar{x} = \frac{790}{30} = 26.33$

$\frac{28+28}{2} = \frac{56}{2} = 28$

$\Sigma fi = 790$

$\Sigma fi^2 = 21470$

$n = 30$

Mc = $\frac{n+1}{2}$ impar

$\frac{n}{2} ; \frac{n}{2} +1$ par

$\frac{30}{2} ; \frac{30}{2} +1$

15 ,16

Mo= 30

0

$$S^2 = \frac{\Sigma fi^{-2} - \frac{(\Sigma fi)^2}{n}}{n-1}$$

Formula

$$S^2 = \frac{\Sigma \overline{F_i}^2 - \frac{(\Sigma F_i)^2}{n}}{n-1}$$

$\Sigma F_i = 790$

$\Sigma \overline{F_i}^2 = 21476$

$n = 30$

$$S^2 = \frac{21476 - \frac{(790)^2}{70}}{29}$$

$21476 - (790^{\wedge 2} \div 30) = \div 29 = \underline{23.1935}$

$S = 4.81$

20-Septiembre 2022

X 1000

45	45	48
50	48	34
48	48	38
49	47	42
50	37	40
35	30	48
40	38	50
45	40	48
48	48	48
48	50	49

900	2,025	2,304
1,156	2,025	2,304
1,225	2,025	2,304
1,369	2,209	2,308
1,444	2,304	2,401
1,444	2,304	2,401
1,600	2,304	2,500
1,600	2,304	2,500
1,600	2,304	2,500
1,761	2,304	2,500 = 60,228
14,102	22,108	24,018

Ordenados

30	45	48
34	45	48
35	45	48
37	47	48
38	48	48
38	48	49
40	48	50
40	48	50
40	48	50
42	48	50 = 1,334
374	470	490

$\sum f_i = 1334$

$\sum \bar{f}_i = 60,228$

$n = 30$

$\bar{X} = \dfrac{\sum f_i}{n} = \dfrac{1334}{30} = 44.133$

$M_c = \dfrac{30,30}{2} \cdot \dfrac{30}{2} + 1 \quad 15,16 \quad +48 \quad \dfrac{48}{96} \div = 48$

Moda = 48

$S^2 = \dfrac{60,228 - \frac{(1334)^2}{30}}{29} = 31.36$

$S^2 = 31.36$

$S = \sqrt{31.36} = 5.6$

25-septiembre 2022