

**NOMBRE DEL ALUMNO:**

David Alejandro Silva García

**NOMBRE DEL CATEDRATICO:**

Jorge Enrique Aguilar Albores

**GRADO:**

1°

**GRUPO:**

"A"

**ASIGNATURA:**

Estadística descriptiva

**CATRIMESTRE:**

3er

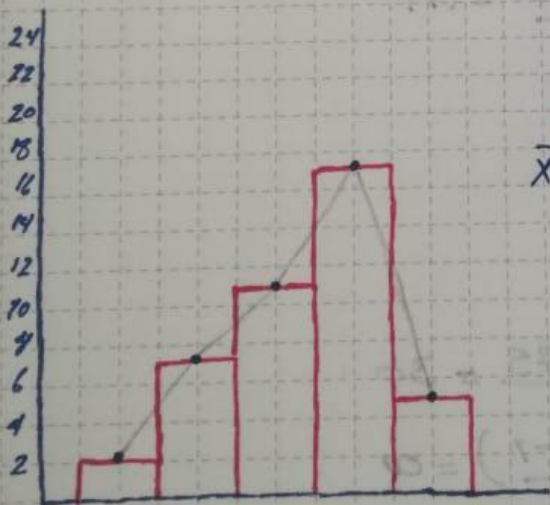
**COMITAN DE DOMINGUEZ, CHIAPAS, MEXICO A 30/05/2020**

Los 40 alumnos de una Clase han obtenido las siguientes puntuaciones Sobre 50, en un examen de Física.

32, 35, 28, 38, 44, 48, 45, 32, 3, 15, 24, 28, 33, 35, 38, 42, 23, 38, 36, 34, 29, 25, 17, 7, 34, 36, 39, 44, 31, 26, 20, 11, 13, 22, 27, 47, 39, 37, 34, 13.

Dato	$f_i$	$f_a$	$Mc$	$Fi-Mc$	$f_r$	$f\%$
0-10	2	2	5	40	0.05	5%
10-20	7	9	15	105	0.175	17.5%
20-30	9	18	25	225	0.225	22.5%
30-40	17	35	35	595	0.425	42.5%
40-50	5	40	45	225	0.425	42.5%

$n = 40$



Promedio  $\bar{x}$

$$\bar{x} = \frac{\sum MC}{n} = \frac{f_a}{n} = \frac{7(10) + 9(20) + 17(30) + 5(40)}{40}$$

$$= \frac{770}{40} = 19.25$$



Modo:

$$M_0 = 30 + \left( \frac{5}{9+5} \right) 40 = 33.57$$

Mediana: (M)

$$L + \left( \frac{N}{c} - \left( \frac{fac-1}{fa} \right) \right) = 1$$

$$M = 30 + \left( \frac{20-18}{17} \right) = 31.17$$

$$P_{70} = \frac{n-70}{100} = \frac{40-70}{100} = 20$$

$$L + \left( \frac{x \cdot n}{100} - (fac-1) \right) = 0$$

$$30 + \left( \frac{28-48}{17} \right) = 10$$

$$P_{70} = 35.88$$

tercer cuartil.

$$Q_3 = \frac{N-75}{100} = \frac{40-75}{100} = 30$$

$$Q_3 = L + \left( \frac{Q_3 - (fac-1)}{F_1} \right) = 0$$

$$30 + \left( \frac{30-48}{17} \right) = 10$$

$$Q = 37.05$$

