

## Tema: EJECICIO PRÁCTICO

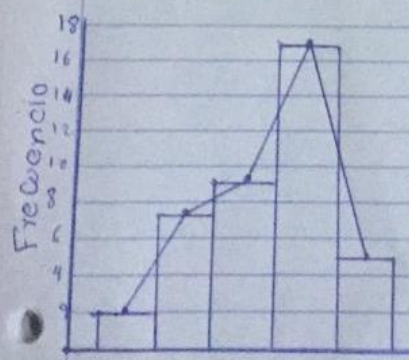


- NOMBRE DEL ALUMNO: DENILSON ANTONIO CRUZ VELASCO
- NOMBRE DEL DOCENTE: JORGE ENRIQUE ALBORES ALGUILAR
- CARRERA: CONTADURIA Y FINANZAS
- CUATRIMESTRE:3°
- MATERIA: ESTADISTICA DESCRIPTIVA
- COMITÁN DE DOMINGUEZ CHIAPAS, A 23 DE MAYO DEL 2020

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, 5, 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, 32, 34, 13

Data	$P_i$	$F_a$	$M_c$	$F_i - M_c$	$f_r$	$f\%$
[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  $\bar{x}$

$$\bar{x} = \frac{\sum M_c \cdot f_a}{n} = \frac{10 \cdot 2 + 15 \cdot 7 + 25 \cdot 9 + 35 \cdot 17 + 45 \cdot 5}{40}$$

$$= \frac{1160}{40} = 29$$

Moda

$$Mo = 30 + \left( \frac{5}{4+5} \right) 40 = 33,57$$

Mediana (M)

$$Li + \left( \frac{N}{2} - \frac{fac-1}{f_1} \right) = 1$$

$$M = 30 + \left( \frac{20 - 18}{17} \right) = 10 = 31,17$$

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

$$Li + \left( \frac{\frac{n-p}{100} - (fac-1)}{f_1} \right) = a_i$$

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

$$P_{70} = 35,88$$

Tercer cuartil

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

$$Q_3 = Li + \left( \frac{Q_3 - (fac-1)}{f_1} \right) = a_i$$

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

$$Q = 37,05$$