



## ***INDICE***

***PRESENTA: JOSE LUIS MORALES VELAZQUEZ***

***MAESTRO: MAGNER JOEL HERRERA***

***MATERIA: ESTADISTICA DESCRIPTIVA***

***NOMBRE DEL TRABAJO: MEDIDAS DE POSICIÓN***

***GRADO: 3***

***GRUPO: "C"***

***FECHA DE ENTREGA: 26/07/2020***

①

$x_1$	$x_2$	$x_3$	$x_4$	$x_5$	$x_6$	$x_7$	$x_8$	$x_9$	$x_{10}$
50	50	52	53	55	56	56	56	56	57
$x_{11}$	$x_{12}$	$x_{13}$	$x_{14}$	$x_{15}$	$x_{16}$	$x_{17}$	$x_{18}$	$x_{19}$	$x_{20}$
58	58	58	58	59	60	60	61	63	63
$x_{21}$	$x_{22}$	$x_{23}$	$x_{24}$	$x_{25}$	$x_{26}$	$x_{27}$	$x_{28}$	$x_{29}$	$x_{30}$
63	63	63	64	64	64	65	65	68	68

$Q_1$   
56

63  
 $Q_3$

$Q_1 = 56$

$Q_3 = 63$

$D_5 = 59$  50%  
 $D_8 = 64$  80%

$$Q_k = \frac{kn}{4}$$

$$Q_k = \frac{kn}{4}$$

$$Q_1 = \frac{1 \times 30}{4} = 7.5$$

$$Q_3 = \frac{3 \times 30}{4} = 22.5$$

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

$$\frac{63 + 63}{2} = 63$$

Deell

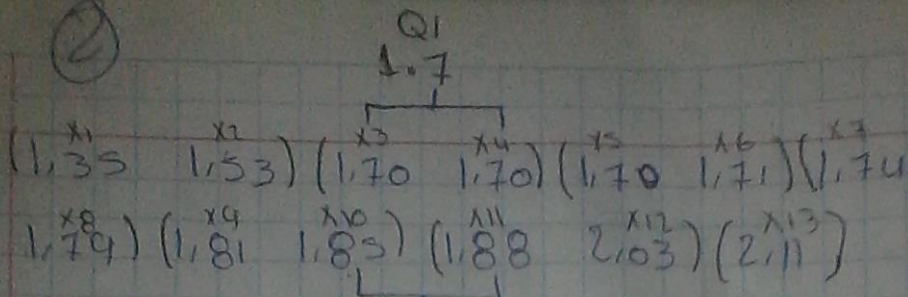
$$\frac{kn}{10} = \frac{5 \times 30}{10} = 15$$

$$\frac{kn}{10} = \frac{8 \times 30}{10} = 24$$

$$D_5 = 59 = 50\%$$

$$D_8 = 64 = 80\%$$

2



Q<sub>k</sub>     $k \frac{(n+1)}{4}$     1.86     $Q_3$      $1.70 + 1.70 = 1.7$

$Q_1 = \frac{1(13+1)}{4}$

$Q = 3.5$

$Q_1 = 1.7$   
 $Q_3 = 1.86$

$D_2 = 1.53 \quad 20\%$   
 $D_7 = 1.81 \quad 70\%$

Q<sub>k</sub>     $k \frac{(n+1)}{4}$

$\frac{1.85 + 1.88}{2} = 1.86$

$Q_3 = \frac{3(13+1)}{4}$

$Q = 10.5$

Decil

$\frac{k_n}{10} = \frac{2 \times 13}{10} = 2.6$

$D_2 = 1.53 = 20\%$

$\frac{k_n}{10} = \frac{7 \times 13}{10} = 9.1$

$D_7 = 1.81 = 70\%$

3

X	f	F
44	9	9
45	13	22
49	16	38
53	12	50
54	11	61
55	8	69
56	6	75
57	5	80
Total	80	

$Q_3 = 54$   
 $D_5 = 53 \quad 50\%$   
 $D_7 = 54 \quad 70\%$   
 $P_{45} = 49$   
 $P_{73} = 54$

$Q_k$	$D_k$	$P_k$
$\frac{kn}{A}$	$\frac{kn}{10}$	$\frac{kn}{100}$
$Q_3 \quad \frac{3 \times 80}{4} = 60$	$D_5 \quad \frac{5 \times 80}{10} = 40$	$P_{45} = \frac{45 \times 80}{100} = 36$
$Q_3 = 54$	$D_5 = 53$	$P_{45} = 49$
	$D_7 \quad \frac{7 \times 80}{10} = 56$	$P_{73} \quad \frac{73 \times 80}{100} = 58$
	$D_7 = 54$	$P_{73} = 54$