ESTADISTICA DESCRIPTIVA
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PRESENTA EL ALUMNO:

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GRUPO, SEMESTRE y MODALIDAD:

3er. Cuatrimestre Administración de empresas

FRONTERA COMALAPA A 26 DE JULIO DEL 2020

Ejercicio 1   Peso en Kg de 30 personas

Peso en Kg de 30 personas

Determina

58	50	56	56	58	$Q_1 = 56$
58	56	63	50	63	$Q_2 = 63$
68	63	64	64	53	$D_5 = 59$
60	68	65	63	61	$D_8 = 64$
55	65	56	63	52	
57	60	59	58	64	

Q_1 $D_5 Q_2$ $Q_3 \ D_8$

50,50,52,53,55,56,56,56,56,57,58,58,58,58,59,60,60,61,63,63,63,63,63,64

64,64,65,65,68,68

57.5

$$Q_K = \frac{Kn}{4}$$

$$Q_1 = \frac{1(30)}{4}$$

$$Q_1 = 30/4 = 7.5$$

$$Q_K = \frac{Kn}{4}$$

$$Q_3 = \frac{3(30)}{4}$$

$$Q_3 = 90/4 = 22.5$$

$$D_K = \frac{kn}{10}$$

$$D_5 = \frac{5(30)}{10}$$

$$D_5 = 150/10 = 15$$

$$D_K = \frac{kn}{10}$$

$$D_8 = \frac{8(30)}{10}$$

$$D_8 = 240/10 = 24$$

$$Q_1 = \frac{56+56}{2}$$

$$Q_1 = \frac{112}{2}$$

$$Q_1 = 56$$

$$Q_3 = \frac{63+63}{12}$$

$$Q_3 = \frac{126}{2}$$

$$Q_3 = 63$$

Ejercicio 2   Altura de 13 personas

1.35 − 1.79 − 1.71 − 1.85 − 1.70   Determinar

2.11 − 2.03 − 1.81 − 1.70 − 1.74 $Q_1 = 1.70$

1.53 − 1.70 − 1.88 $Q_3 = 1.86$

                                         $D_2 = 1.61$

          D_2 Q_1 $D_7 = 1.83$ D_7 Q_3

1.35, 1.53 [1.70] 1.70, 1.70, 1.71, 1.74] 1.79, 1.81 [1.85] 1.88, 2.03, 2.11

                                              1.86

$$Q_k = \frac{k(n+1)}{4}$$

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

$$Q_1 = \frac{14}{4}$$

$$Q_1 = 3.5$$

$$Q_k = \frac{k(n+1)}{4}$$

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

$$Q_3 = \frac{42}{4}$$

$$Q_3 = 10.5$$

$$D_k = \frac{k(n+1)}{10}$$

$$D_2 = \frac{2(13+1)}{10}$$

$$D_2 = \frac{2(14)}{10}$$

$$D_2 = 28/10 = 2.8$$

$$D_k = \frac{k(n+1)}{10}$$

$$D_7 = \frac{7(13+1)}{10}$$

$$D_7 = \frac{7(14)}{10}$$

$$D_7 = 98/10 = 9.8$$

$$Q_1 = \frac{1.70+1.70}{2}$$

$$Q_1 = 3.4/2$$

$$Q_1 = 1.70$$

$$Q_3 = \frac{1.85+1.88}{2}$$

$$Q_3 = 3.73/2$$

$$Q_3 = 1.86$$

$$D_2 = \frac{1.53+1.70}{2}$$

$$D_2 = 3.23/2$$

$$D_2 = 1.61$$

$$D_7 = \frac{1.81+1.85}{2}$$

$$D_7 = 3.66/2$$

$$D_7 = 1.83$$

Ejercicio 3

En la siguiente tabla se muestran los tiempos de duración en horas de 80 baterías.

X	f	F	
44	9	9	Determina
45	13	22	$Q_3 = 54$
49	16	38	$D_5 = 53$
53	12	50	$D_7 = 54$
54	11	61 Q3	$P_{45} = 49$
55	8	69	$P_{73} = 54$
56	6	75	
57	5	80	
Total	80		

$$Q_3 = \frac{Kn}{4} \qquad D_5 = \frac{Kn}{10} \qquad D_7 = \frac{Kn}{10}$$

$$Q_3 = \frac{3 \cdot 80}{4} \qquad D_5 = \frac{5 \cdot 80}{10} \qquad D_7 = \frac{7(80)}{10}$$

$$Q_3 = \frac{240}{4} \qquad D_5 = \frac{400}{10} \qquad D_7 = \frac{560}{10}$$

$$Q_3 = 60 \qquad D_5 = 40 \qquad D_7 = 56$$

$$P_{45} = \frac{Kn}{100} \qquad P_{73} = \frac{Kn}{100}$$

$$P_{45} = \frac{45 \cdot 80}{100} \qquad P_{73} = \frac{73 \cdot 80}{100}$$

$$P_{45} = \frac{3600}{100} \qquad P_{73} = \frac{5840}{100}$$

$$P_{45} = 36 \qquad P_{73} = 58.4$$