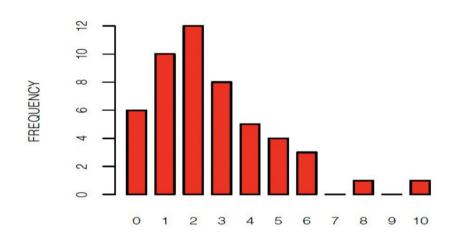
## Description Universate

Ljercio	ed 8.

## Descriptiva univariante

Dado el siguiente diagrama de barras:



a) ¿Cuál es la tabla de frecuencia	s (absolutas) correspondiente?
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- b) Utilizar dicha tabla de frecuencias para calcular la media y desviación estándar de este conjunto de datos.
- c) Calcular la moda y la mediana.
- d) ¿Qué valor es el percentil 50? 4 Nadiara = 2
- e) Calcular los cuartiles.
- f) Hacer el boxplot.

> frecabsoluts					
Valors	ηĊ	Ni - free. 665			
0 1 2 3 4	602854	6 aeumi 16 28 36 41			
5 6 7 8 9 0	730101	48 49 49 49			

total: 50=n: temason

$$\hat{A} = \frac{1}{n} = \frac{1}{j=1} \times j \cdot n \hat{j} = \frac{1}{50} \left( 0 \times 6 + 1 \times 10 + 2 \times 12 + 3 \times 8 + 4 \times 5 + 5 \times 4 + 6 \times 3 + 6 \times 5 + 6 \times$$

$$+7\times0+8\times1+9\times0+10\times1)=\frac{1}{50}\cdot\left(10+24+24+20+20+18+8+10\right)$$

$$=\frac{1}{50}(134)=\frac{2.68}{2.68}=\frac{1}{134}$$

$$S^{2}\left(\frac{1}{2} \times x^{2} \cdot n_{j}\right) - X^{2}$$

$$S^{2}\left(\frac{1}{1}\right)^{-1} \times \frac{1}{1} \times$$

$$S^{2}\left(\frac{1}{n}\sum_{j=1}^{k}x_{j}^{2}.n_{j}\right)-X^{2}$$

$$=\frac{1}{50}\left(\frac{2}{0}\times6+\frac{1}{2}\times10+\frac{2}{2}\times12+\frac{2}{3}\times8+\frac{4}{2}\times7+\frac{5}{2}\times4+\frac{2}{6}\times3+\frac{3}{2}\times1+\frac{2}{10}\times1\right)$$

$$=\frac{1}{50}\left(\frac{2}{0}\times6+\frac{1}{2}\times10+\frac{2}{2}\times12+\frac{2}{3}\times8+\frac{4}{2}\times7+\frac{5}{2}\times4+\frac{2}{6}\times3+\frac{3}{2}\times1+\frac{2}{10}\times1\right)$$

$$= \frac{1}{50} \left( \frac{2}{0} \times 6 + \frac{1}{1} \times 10 + \frac{2}{10} \times 12 + \frac{3}{10} \times 100 + \frac{1}{10} \times 100 \right) - \frac{1}{10} \times 100 \times 100 + \frac{1}{10} \times 100 = \frac{1}{10} \times 100 \times 100 = \frac{1}{10} \times 100$$

$$= \frac{1}{10} \left( 10 + 48 + 72 + 80 + (80 + 108 + 64 + 108) - 7.1824 \right)$$

$$= \frac{1}{10} \left( 10 + 48 + 72 + 80 + (80 + 108 + 401) \right)$$

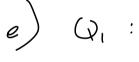
$$S^{2} = 4.4576. \implies S = \sqrt{5^{2}} = 2.11$$

C) Mola=2. 
$$pos; con^{2} = 2$$
.  $pos; con^{2} = 2$ .

Nediere =  $2 + 2 = 2 = 2 = 2$ .

 $2$ 
 $2$ 
 $2$ 
 $3$ 

Percettil  $50 = \text{Mediene} = 2$ .



Q3:

50-13-1

$$Q_1=1$$

$$1$$

$$25$$

$$25$$

$$25$$

$$25$$

$$25$$

$$25$$

$$25$$

25+13=(3D.)

25 = 12.5 ≈ 13,

5 = z. s

· · (imper.)

 $M = Q_3 - Q_1 = 9 - 1 = 3$ B1=Q1-1.5xRT=1-1.5x3=1-4.7=-3.5

 $B_1 = Q_1 - 1.5xRT = 1 - 1.5x3 = 1 - 4.7 = -3.$  $B_2 = Q_3 + 1.5xRT = 4 + 1.7x3 = 4 + 4.5 = 8.5.$