

# UDOS

**Nombre del profesor: Jorge Sebastian Domínguez**

**Nombre del alumno : María José Albores Escalante**

**Parcia : 3**

**Nombre de la materia : Probabilidad y estadística**

**Carrera : BRH**

20, 25, 13, 12, 45, 75, 8, 6, 20, 25, 20, 32, 16, 25, 12, 6, 5,  
 25, 40, 35, 45, 15, 15, 8, 8, 16, 25, 20, 35, 8, 8, 20, 25,  
 13, 12, 45, 75, 8, 6, 20, 25, 20, 32, 16, 25, 12, 6, 8, 25,  
 40, 35, 45, 15, 15, 8

$n = 55$

6 = 4    13 = 2    20 = 7    35 = 3    75 = 2  
 8 = 4    15 = 4    25 = 9    40 = 2  
 12 = 6    16 = 3    32 = 2    45 = 4

$X_i$	$f_i$	$F_i$	$F_r$	%	
5	3	3	$3/55 = 0.05$	5%	15
6	4	7	$4/55 = 0.07$	7%	24
8	4	11	$4/55 = 0.07$	7%	32
12	6	17	$6/55 = 0.10$	10%	72
13	2	19	$2/55 = 0.03$	3%	26
15	4	23	$4/55 = 0.07$	7%	60
16	3	26	$3/55 = 0.05$	5%	48
20	7	33	$7/55 = 0.12$	12%	140
25	9	42	$9/55 = 0.16$	16%	225
32	2	44	$2/55 = 0.03$	3%	64
35	3	47	$3/55 = 0.05$	5%	105
40	2	49	$2/55 = 0.03$	3%	80
45	4	53	$4/55 = 0.07$	7%	180
75	2	55	$2/55 = 0.03$	3%	150

$\Sigma 1,221 \div 55$

→

$X = 22.2$

$Me = 20$

$Mo = 25$

Rango

$$X_{\max} - X_{\min}$$

$$75 - 5 = 70$$

Desviación

$\sum X^2$

$$5^2 + 6^2 + 8^2 + 12^2 + 13^2 + 15^2 + 16^2 + 20^2 + 25^2 + 32^2 + 35^2 + 40^2 + 45^2 + 75^2$$

$$25 + 36 + 64 + 144 + 169 + 225 + 256 + 400 + 625 + 1,024 + 1,225 + 1,600 + 2,025 + 5,625$$

$$\sum X^2 = 13,443$$

$$\sum X_i (5 + 6 + 8 + 12 + 13 + 15 + 16 + 20 + 25 + 32 + 35 + 40 + 45 + 75)$$

$$= (347)^2 = 120,409$$

$$S^2 = 13,443 - \frac{120,409}{55}$$

$$\frac{13,443}{54} - 2,189 = 208.40 \sqrt{\phantom{x}} = 14.43$$

número de datos

varianza

$$0\% \quad P = \frac{kn}{C} \quad \frac{30 \cdot 55}{100} = \#16 (12)$$

$$3\% \quad P = \frac{kn}{C} \quad \frac{55 \cdot 55}{100} = \#30 (20)$$

$$5\% \quad P = \frac{kn}{C} \quad \frac{75 \cdot 55}{100} = \#41 (25)$$

na