

Colegio Científico Montessori



Nombre:

Lesly Paola Pérez López

Docente:

Edgar Samuel de la Cruz Urizar

Tema:

Distribución de Frecuencia

Curso:

Estadística Descriptiva

Grado:

5to Bachillerato en Ciencias y Letras con Orientación en Computación

Clave:

18

Realiza la distribución de frecuencia de los grupos de datos que encontraras a continuación. Deberás haber estudiado la lección 15.

- a. 20, 21, 30, 26, 24, 20, 22, 20, 21, 30, 26, 25, 22, 25, 31, 20, 26, 24, 22, 20, 32, 30, 21, 30, 24, 28, 22, 31, 20, 21, 30, 26, 25, 22, 25.

$n = 35$

20, 20, 20, 20, 20, 20, 21, 21, 21, 21, 22, 22, 22, 22, 22, 24, 24, 24, 25, 25, 25, 25, 26, 26, 26, 26, 28, 30, 30, 30, 30, 30, 31, 31, 32.

X_i	f_i	F_i	n_i	N_i	$n_i\%$	$N_i\%$
20	6	6	$6/35 = 0.1714$	0.1714	17.14	17.14
21	4	10	$4/35 = 0.1142$	0.2856	11.42	28.56
22	5	15	$5/35 = 0.1428$	0.4284	14.28	42.84
24	3	18	$3/35 = 0.0857$	0.5141	8.57	51.41
25	4	22	$4/35 = 0.1142$	0.6283	11.42	62.83
26	4	26	$4/35 = 0.1142$	0.7425	11.42	74.25
28	1	27	$1/35 = 0.0285$	0.7710	2.85	77.10
30	5	32	$5/35 = 0.1428$	0.9138	14.28	91.38
31	2	34	$2/35 = 0.0571$	0.9709	5.71	97.09
32	1	= 35	$1/35 = 0.0285$	= (0.9994) 1	2.85	= 542.6%
	= 35		= (0.9994) 1		= (99.94) 100%	

b. 10, 11, 15, 10, 18, 12, 18, 16, 11, 13, 17, 18, 14, 18, 14, 19, 10, 17, 11, 11, 13, 15, 14, 19, 16, 17, 16, 12, 11, 10, 18, 12, 18, 16, 11, 13, 17.

$n = 37$

10, 10, 10, 10, 11, 11, 11, 11, 11, 11, 12, 12, 12, 13, 13, 13, 14, 14, 14, 15, 15, 16, 16, 16, 16, 17, 17, 17, 17, 18, 18, 18, 18, 18, 18, 19, 19.

X_i	f_i	F_i	ni	Ni	$ni\%$	$Ni\%$
10	4	4	$4/37 = 0.1081$	0.1081	10.81	10.81
11	6	10	$6/37 = 0.1621$	0.2702	16.21	27.02
12	3	13	$3/37 = 0.0810$	0.3512	8.10	35.12
13	3	16	$3/37 = 0.0810$	0.4322	8.10	43.22
14	3	19	$3/37 = 0.0810$	0.5132	8.10	51.32
15	2	21	$2/37 = 0.0540$	0.5672	5.40	56.72
16	4	25	$4/37 = 0.1081$	0.6753	10.81	67.53
17	4	29	$4/37 = 0.1081$	0.7834	10.81	78.34
18	6	35	$6/37 = 0.1621$	0.9455	16.21	94.55
19	2	= 37	$2/37 = 0.0540$	= (0.9995) 1	5.40	= 464.63%
	= 37		= (0.9995) 1		= (99.95) 100%	

c. 2, 4, 6, 3, 6, 4, 4, 5, 5, 4, 7, 3, 5, 4, 3, 3, 5, 6, 3, 4, 3, 4, 3, 4, 3, 2, 4, 2, 2, 3, 3, 3, 3, 3, 4, 4, 4, 6, 4, 3, 4, 4, 4, 4, 4, 5, 5, 5, 5, 6, 6, 7.

$n = 52$

2, 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 6, 6, 6, 6, 6, 6, 7, 7.

X_i	f_i	Fi	ni	Ni	$ni\%$	$Ni\%$
2	4	4	$4/52 = 0.0792$	0.0792	7.92	7.92
3	14	18	$14/52 = 0.2692$	0.3484	26.92	34.84
4	18	36	$18/52 = 0.3461$	0.6945	34.61	69.45
5	8	44	$8/52 = 0.1538$	0.8483	15.38	84.83
6	6	50	$6/52 = 0.1153$	0.9636	11.53	96.36
7	2	= 52	$2/52 = 0.0384$	= (1.002) 1	3.84	= 320.4 %
	= 52		= (1.002) 1		= (100.2) 100%	