Georgiani J. Alres Junion Ecercico D E. f. (%) E. (%) Xi. xi 5 14 25 70 2 16 10 80 4 20 20 100 ξ= 20 Σ= 700 $\bar{X} = \mathcal{E}(x, y) = 38 = 7,9$ md= (2+2)/2=2 made = 7 Variancia = 5x2 = El(x, - x) . 4) = 35,8 = 7,88 durino padria = V5x = V1,88 = 7,37

Exercío 2)

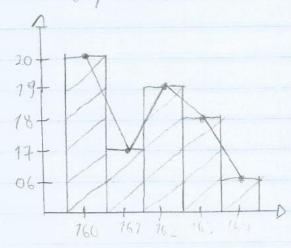
X	4	K	La (%)	En (%)	x. 4	(Xi-X)2. /
760	10	20	25	25	3000	55,77
167	77	37	27,25	Y6, 25	2737	7,41
			23,75		3078	7,41
			22,50		2934	
			7,50	T T		
	8-80		2= 700		12933	E= 729,89

 $\bar{X} = 12.933 = 767,66$

md = 762

Mada - 160

Ver - S x2 = 129,89 = 7,64 29 diring pad an - JSx = 17,64 - 7, 28



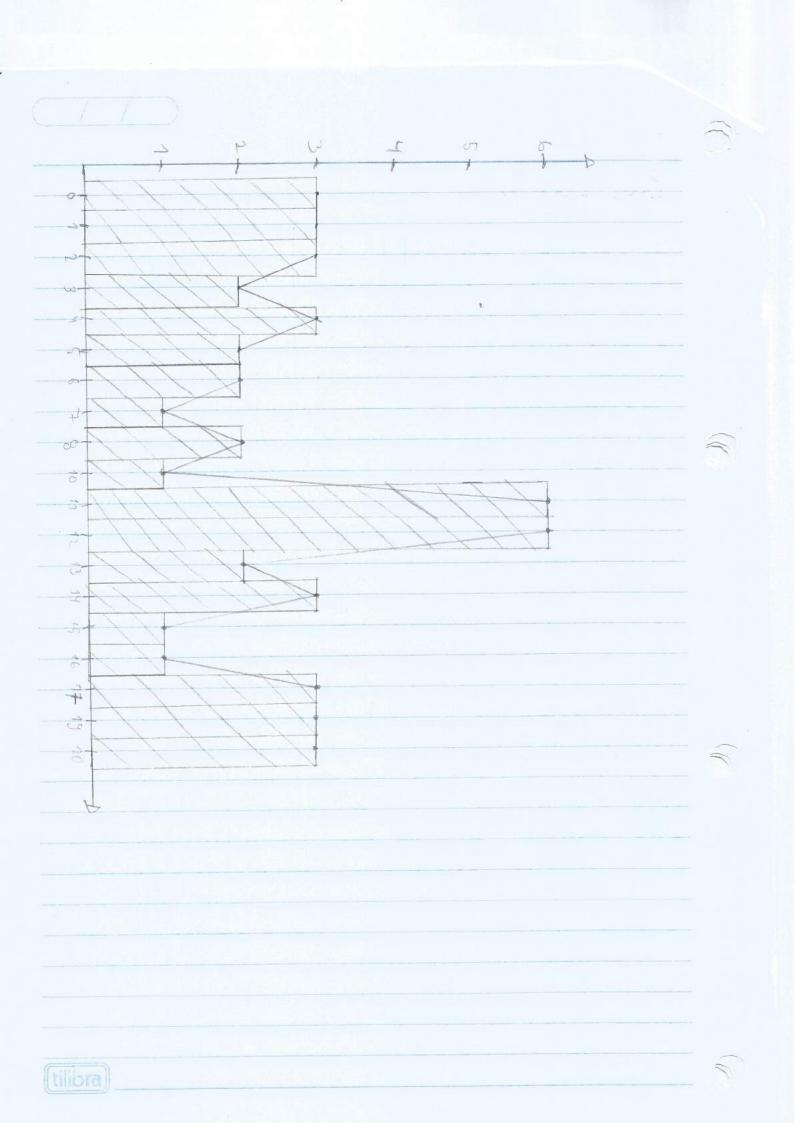
Ectricio 3)

			-	- 1	1	112 0.
Xi	Ni	E	p (8)	En (%)	Xv. V	(xi-x)2. Li.
0	3	3	6	6	0.	22976
. 0	3	6	6	6	. 3	22976
2	3	6	6	18	6	179,72
3	2	11	4.	722	. 3	779, 72 90, 86 98, 87 97, 98 27, 98 27, 96 0, 07 9, 53 30, 65
- 2	3	74	6	28	7)	98, 84
7.5.6			Y	32	10	44 94
. 5	2	76		36	1	7 4 9 8
. 6	2	18	9	36	1)	7 57
. 7	1	19	2	72	76	106
. 8	12	2.7	4			0 62
10	7	22	2	44	10_	0 72
11	6	18	12	56	66	37 35
17	6	34	12	6.8	72	20, 65
7/3	1		4	72	26_	1 / 6 / 6
14	3	36 39	6	7.8	147	57, 44
.12 .13	7	40	2	80	26. Y.2 75	27,67
	1	41	2	82	16	30,79
10	1 2	144	6	60	5.7	158,72
7 7 7 7 7 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9	3 3 3	47		94	157	30,79 158,12 251,21
.1	1 7			100	57 60	375,80
.10	1.5	50		100	E = 487	3-1883,64
	18:4		15 = 100	1	N 101	IV IX

X= 457 50

des. padrão = VSx des. padrão = 6,2

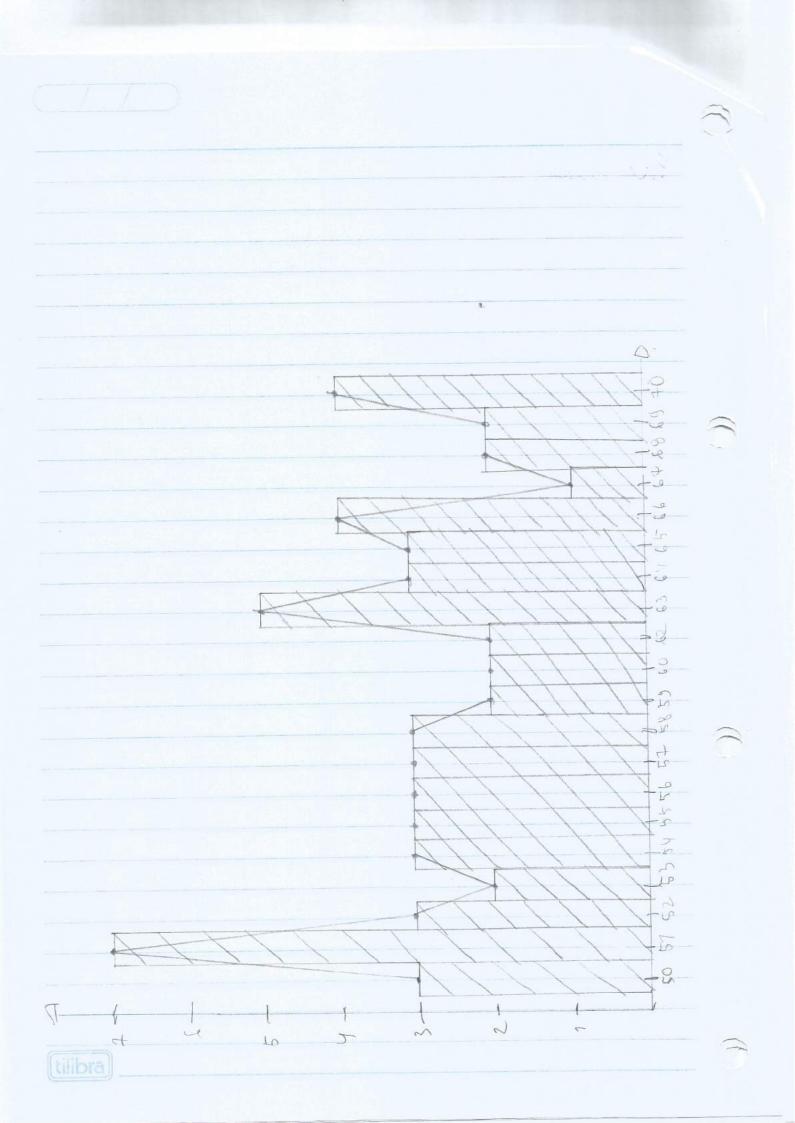
Moder 17 Whede = 17, 12 - 1 Van - Sx 78 = 3, 64 - 38, 44



9	41
Edrícia	1)
4 000	/

_						
X		E	La (%)	Er (90)	Xi. fi	(X:-X)2. fi
50	3	3	5	5	750	709,87
57	7		17,67		357	778,52
52	3	13	5	21,67	156	49, 27
53	2	15	3,33	25	706	78, 67
54	3	7.8	5	30	162	12, 67
55		21	5	35	165	3, 37
56	3	24	ξ	40	168	0, 01
57		27	5	45	171	2, 41
5 8	-	30	5	50	774	71, 47
59			3,33	53,33	178	17, 41
		34	3,33	56,66	720	
6 2		36	3,33	59,99	174	37, 21
63		41	8, 33		375	271, 57
64		44		68, 32	792	
(+	2	47	2		795	789,67
			6,67	84 40	764	240,37
67				84,99		396,07
_ O T		76	7,67	04 90	121	779, 90
10	7	51	3/55	9 2 2 2	778	285,67 335,47 7+8,47 8-3092,4
-0	y	10	(- (8	03,52	7 00	7.18 4-1
_ 1 0	5-6	60	5-100	700	5=300	1- 30 gr U
1	4.64		6-100%		0- 2588	0- 3032,9

X = 3558/60 = 59,3	des. patina = VSX
mol = (58+59)/2:58,5	= V52,47.
moda = 57	= 7,24
Van= 5x2= (3092,4)/59/	
Var = 52,41	tilibra

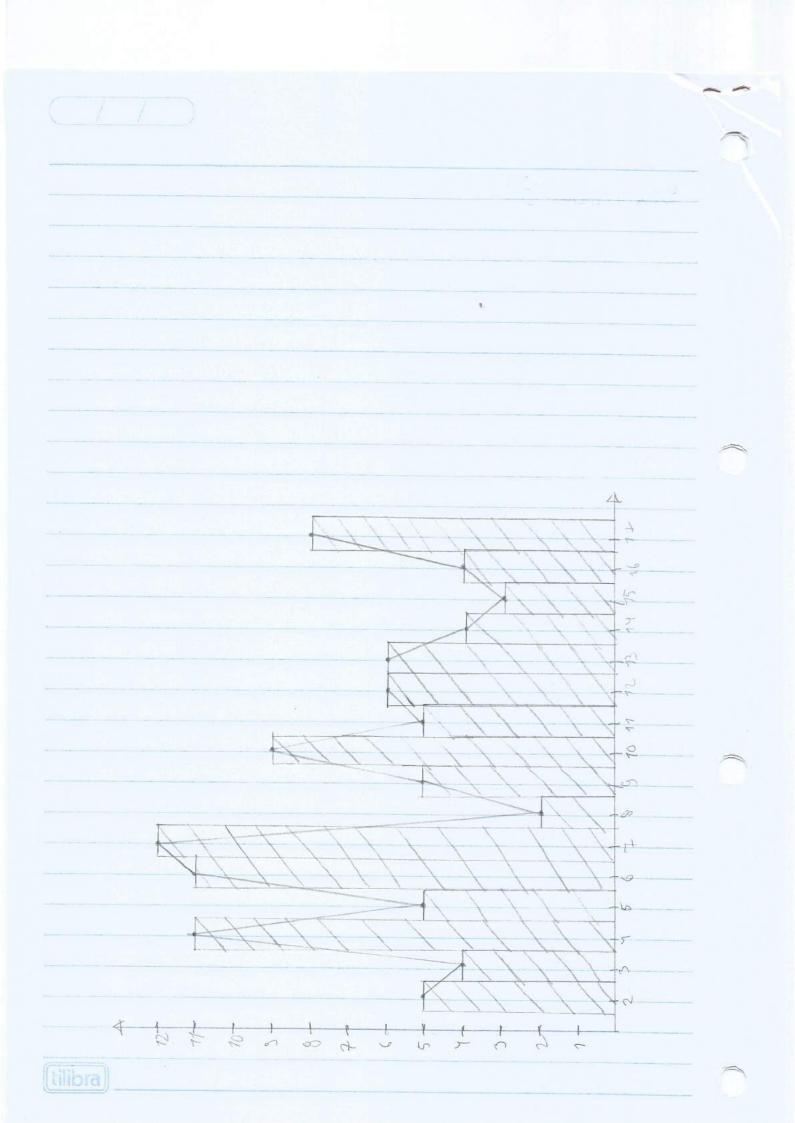


Exercido 5)

Xil	Li	Ki	4 (%)	En (%)	Xi. Vi	$(x_i - \overline{x})^2$. $/$
5	Li 5	5	5	5	70	243,60
.23	Y	9	5	9	12	243,60
4	17	20	17	20 25	44	272, 80 79, 20 97, 68 47, 05
.5	5	25	5	25	25	79, 20
6	17	36	17	36	66	97,68.
.7	12	78	12	4.8	84	47,05
- 8	2	50 55	2 5	50	16	1 97
9	5	55	5	55	45	0, 00 9, 36 20, 40
. 10	9	64	9 5	64	90	9, 36
11	5_	69	5	69	55	20, 40
.12	1	75	6	75	12	54,72
.13	6	87 85	6	81		96,96
.14	14	85	6	85	56	100,80
.15	3	88	3	88	45	100,77
.76		92		02	64	197,12
17	1000	100	1	100	136	574,56
	1 = 10c		S= 100%		3-8981	8=1977,93

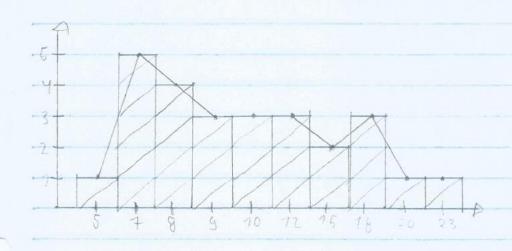
X=898/700 = 8,98	des. padrão = VS
md=8,5	= 4/
moda = 7	
Var = Sx2 = 7977,93/99 / Var = 19,98 x	
- / 0 /	

tillbra



Ecercia 6)

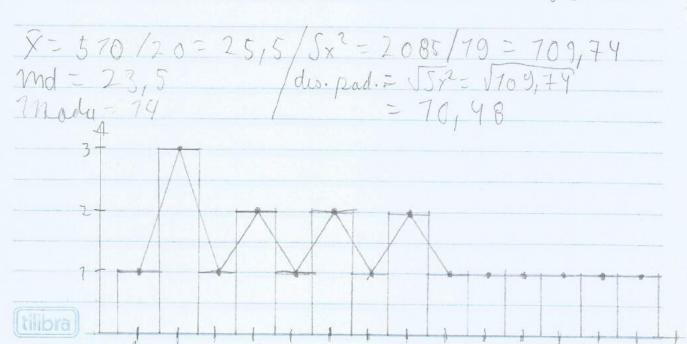
X	Li	E	fr (%)	E (%)	Xi. Li	(x;-x)2. /i
. 5	7	7	3,85	E, (%) 3, 83	5	38,87
.7	5	6	19,23	23,08	35	89,46
			15,38			47,73
9			17,54		27	74, 92
10				67,54	30	4,54
.12			17,54		36	7,78
.75	2	27	7,69	80,77	30	28,43
.78	3	24	11,54	92,37	54	137,50
.20	7	25	3,85	96, 76	20	76,97
.23	7	26	3,84	700,00	23	738, 53
	8-26		8= 100		8=292	8=572,67



[tilibra]

Exercísio 7)

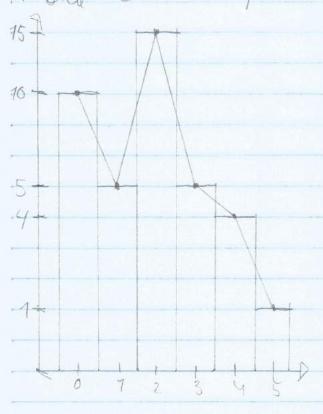
		41				
X	Yi	Ei	for (90)	En (%)	XI. Yi	(Xi- \)2 . Li
13	7	7	5	5	73'	756,25
14			15	20	42	396,75
15	7	5	5	25	75	770, 25
16	2	7	10	35	32	780, 50
20		8	5	40	20_	30, 25
23	.2	70	70	50	46	72,50
24	1	71	5	55	24	2,25
27	2	.73	70	65	54	4,50
37	7	19	5	70	31	30/26
.32	7	15	5	75	32	72, 25
35	1	76	\$	80	35	90,25
40		17	5	85	40	210, 25
41		16	5	90	47	2 40, 25
42	1	19	5	95	42	272,15
43	1	20	5	100	43	306,25
	8:20		8=100		8=5701	8-2085



(Correio 8)

Xi	Li	E	Ja (%)	En (%)	Xi. Li	(X:-7)2, ji
. 0	10	70	75	25	0'	37,68
	1				The state of the s	3,04
						0,73
. 3	5	35	12,5	87,5	15	
. 7	4	39	70			19, 71
. 5	1	40	2,5	700	5	70,37
	8-40		5-100		5=71	8=72,97

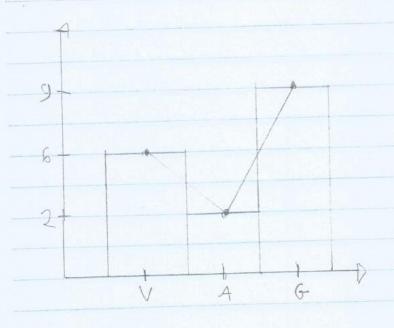
 $\bar{X} = 71/40 = 7,78/5x^2 = 72,94/39 = 7,87$ md = 2 $Sx = \sqrt{1,84} = 7,37$ mode = 2



Oceració 9)

X	1	Ei	4 (%)	En (%)	Xi. fi	(Xi- x)2.4i
Vila Dili	16	8	35,29	35,29 Y7,05	1	70
Golds.	8=17	17	52, 9.5	700	*	

x = 7 md = 9 - 9 Goias/ moda = Goias/



Ecercicio 70)

Xi	Si	Ki	An (%)	En (%)	Xi di	(Xu'- X)	. fi
1	4	1	10	70	7	213,	16
5	7	2	70	261	T, 5	112	36
7	2	4	20	40	74	741,	92
9	7	6.	10	150	9	43/	56
	7		10	60	75	0,	36
		7	10	70	74	7,	
18	7	8	101	80		5,	
23	7	9	10	90		54,	
54	17	10	170	100		7474	
	5=10		0= 100		8-756	2054	, 4

X = 756/10 = 75,6 $Sx^2 = 2054,4/9 = 228,27$ $Md = (9+75)/2 = 72/Sx = \sqrt{228}, 27 = 75,11$ Modu = 7

