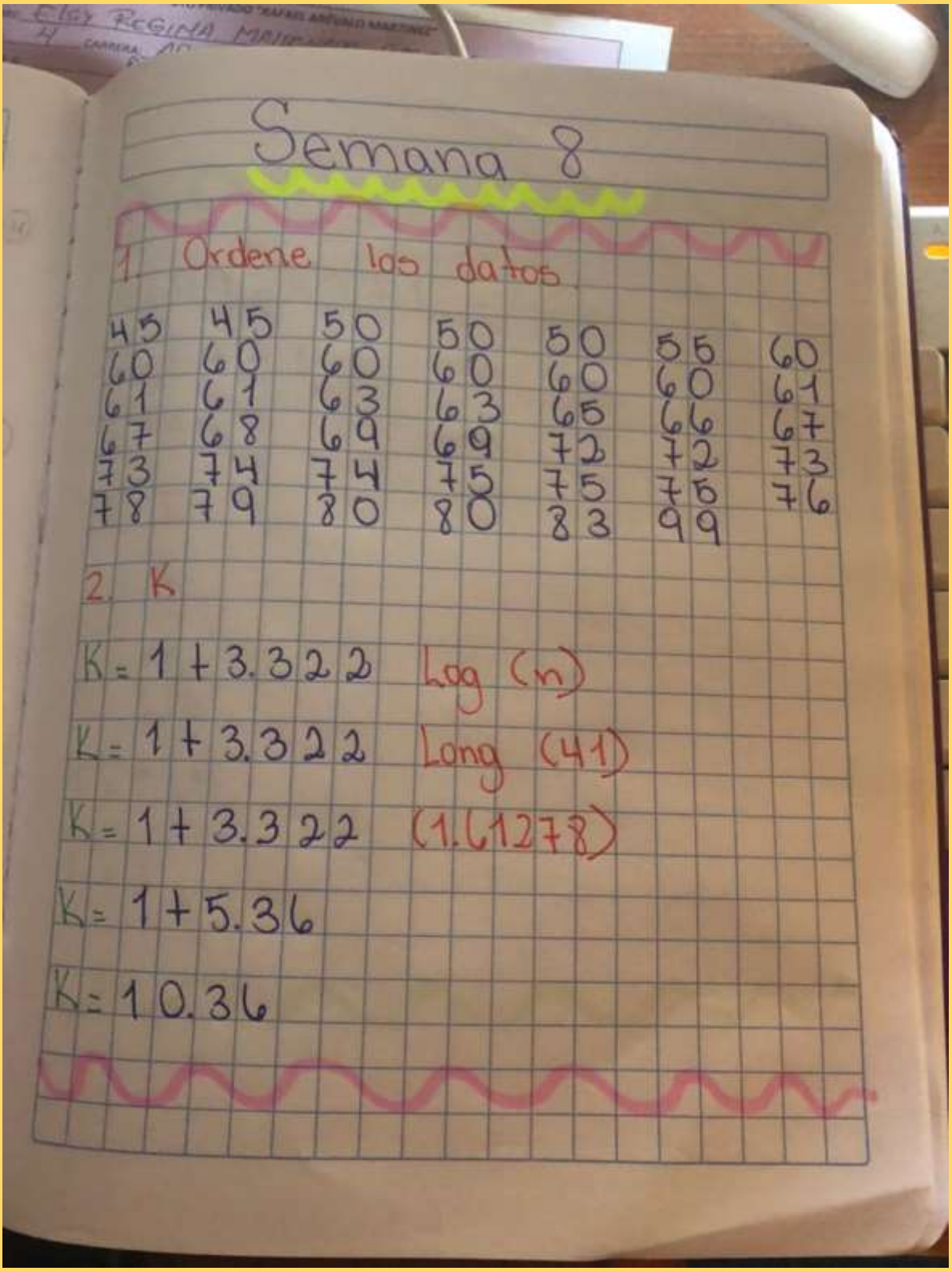
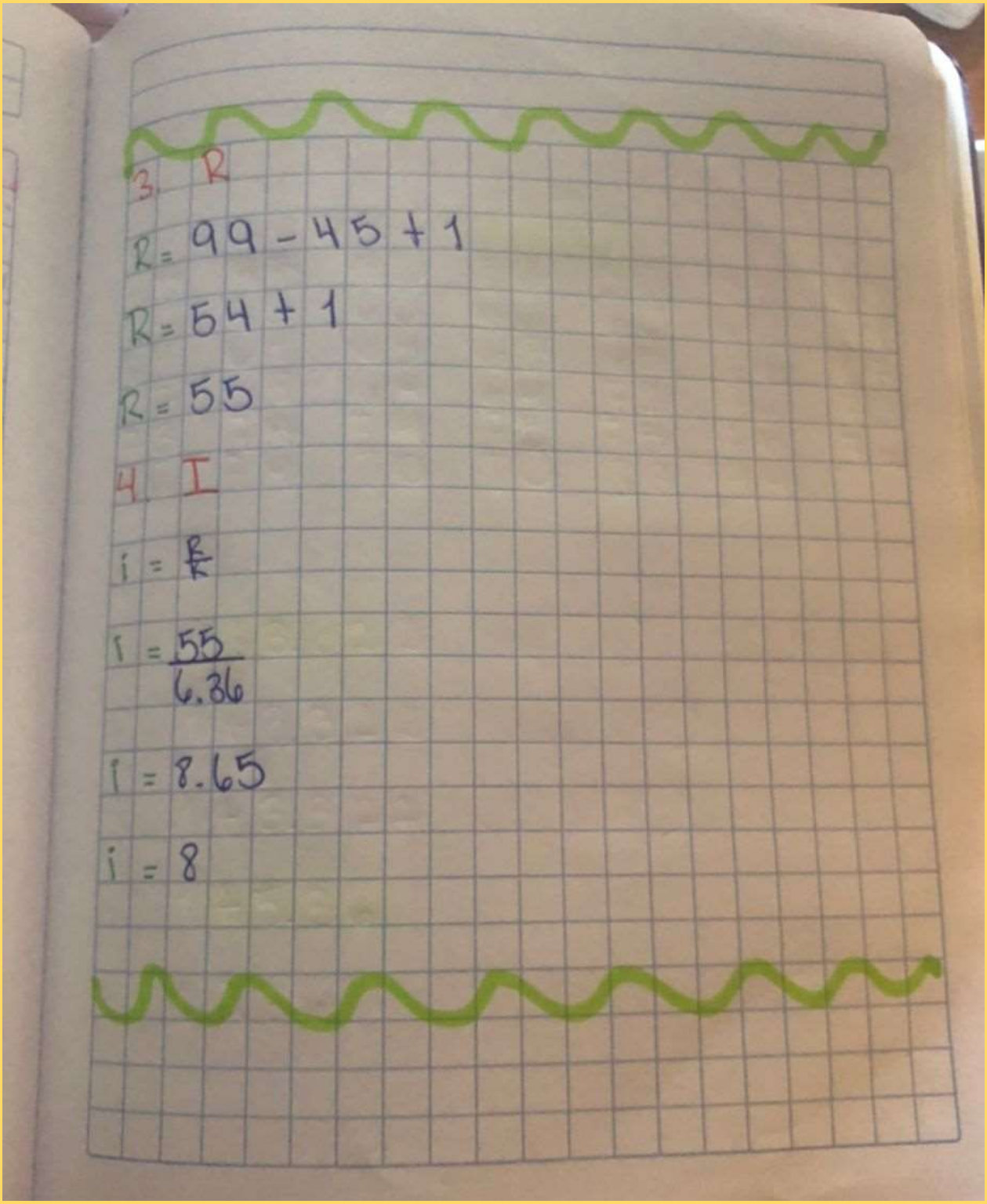

Semana 8
1. Ordene los datos
45 45 50 50 50 55 60
60 60 60 60 60 60 61
61 61 63 63 65 62 67
67 68 69 69 72 72 73
73 74 74 75 75 75 77
78 79 80 80 83 99
2. K
K = 1 + 3.322 Log (n)
K = 1 + 3.322 Long (41)
K = 1 + 3.322 (1.61278)
K = 1 + 5.36
K = 10.36



3. R

$R = 99 - 45 + 1$

$R = 54 + 1$

$R = 55$

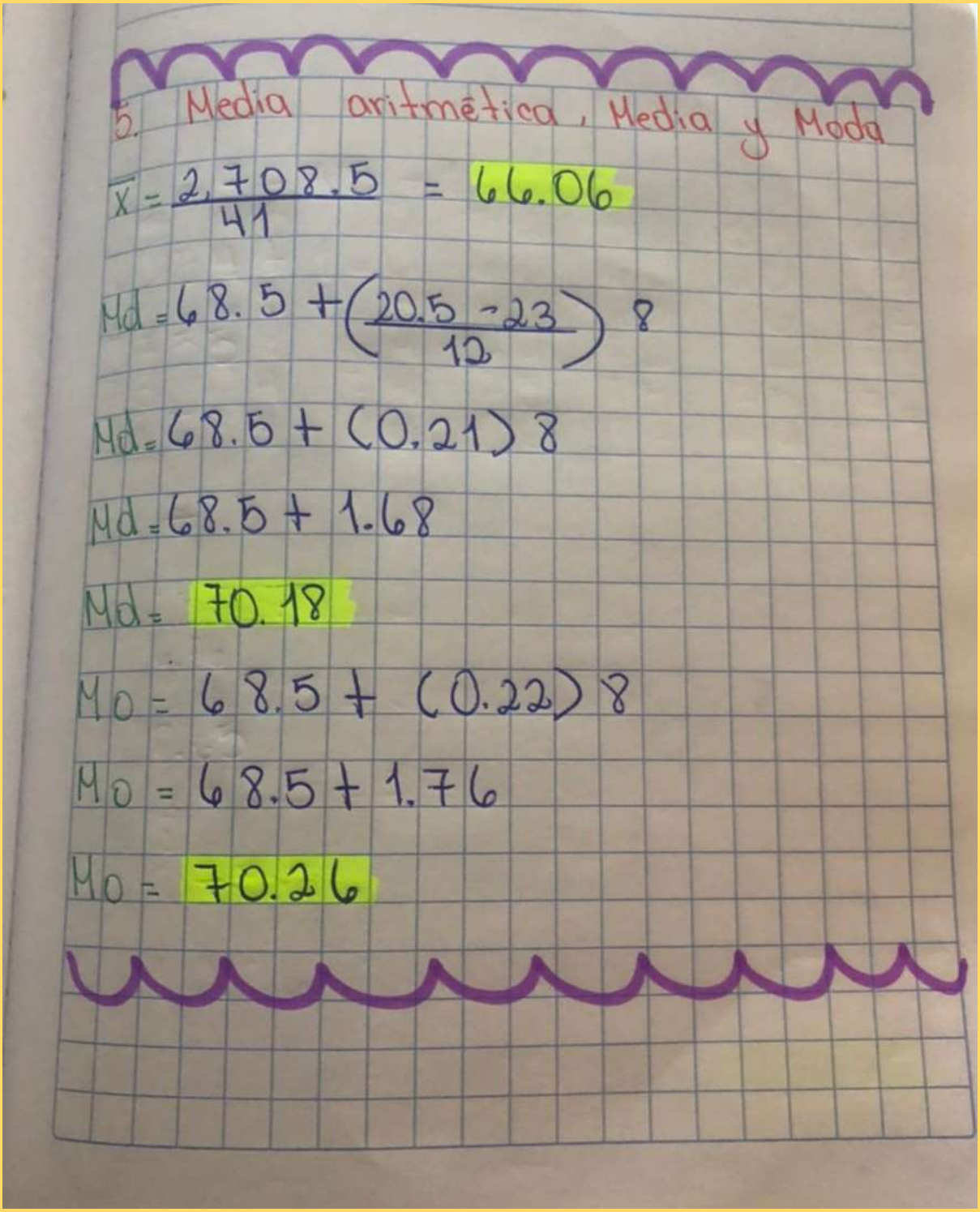
4. I

$i = \frac{R}{}$

$I = \frac{55}{6.36}$

$I = 8.65$

$i = 8$


5. Media aritmética, Media y Moda
$\bar{x} = \frac{2,708.5}{41} = 66.06$
$Md = 68.5 + \left(\frac{20.5 - 23}{12}\right) 8$
$Md = 68.5 + (0.21)\,8$
$Md = 68.5 + 1.68$
$Md = 70.18$
$Mo = 68.5 + (0.22)\,8$
$Mo = 68.5 + 1.76$
$Mo = 70.26$

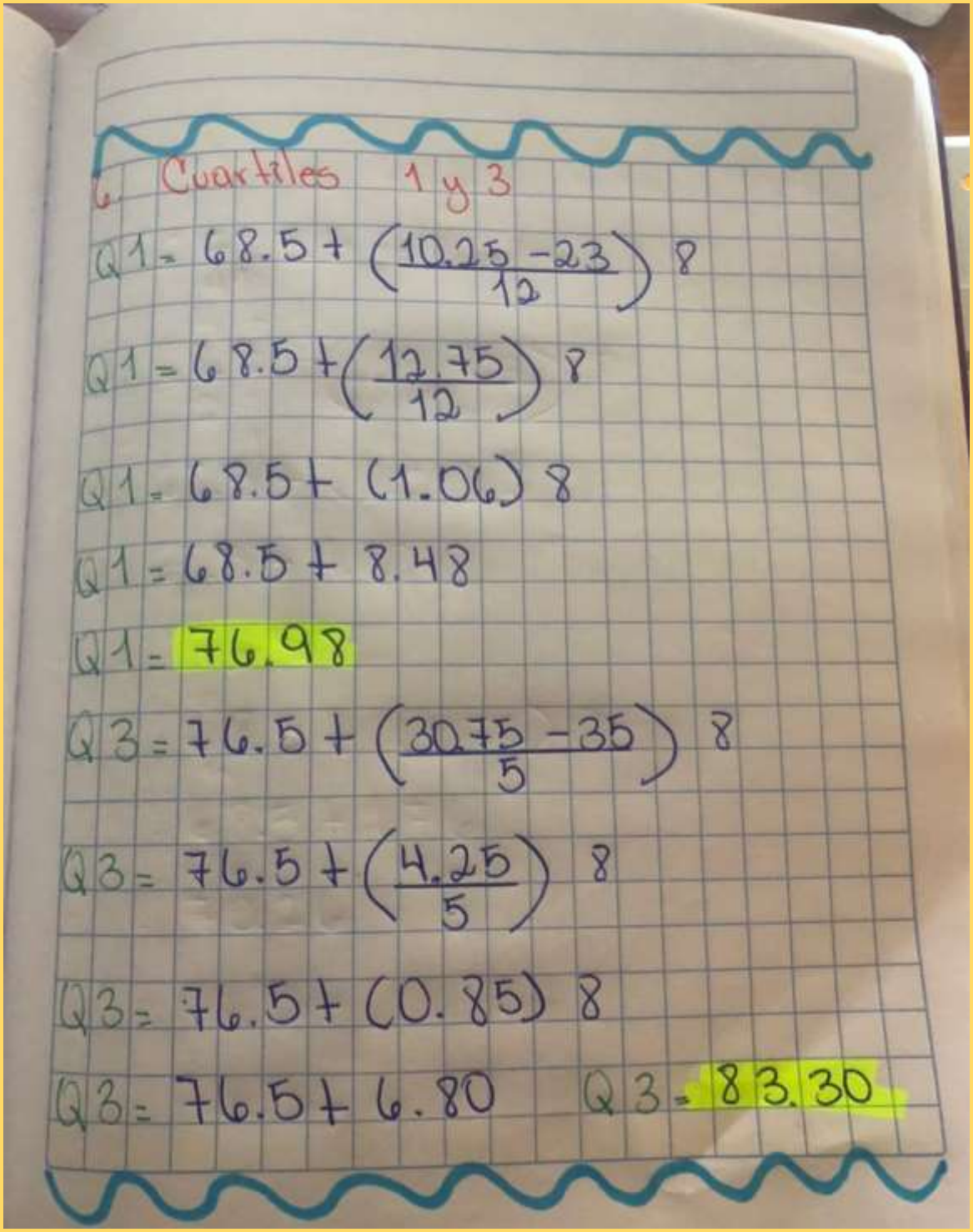
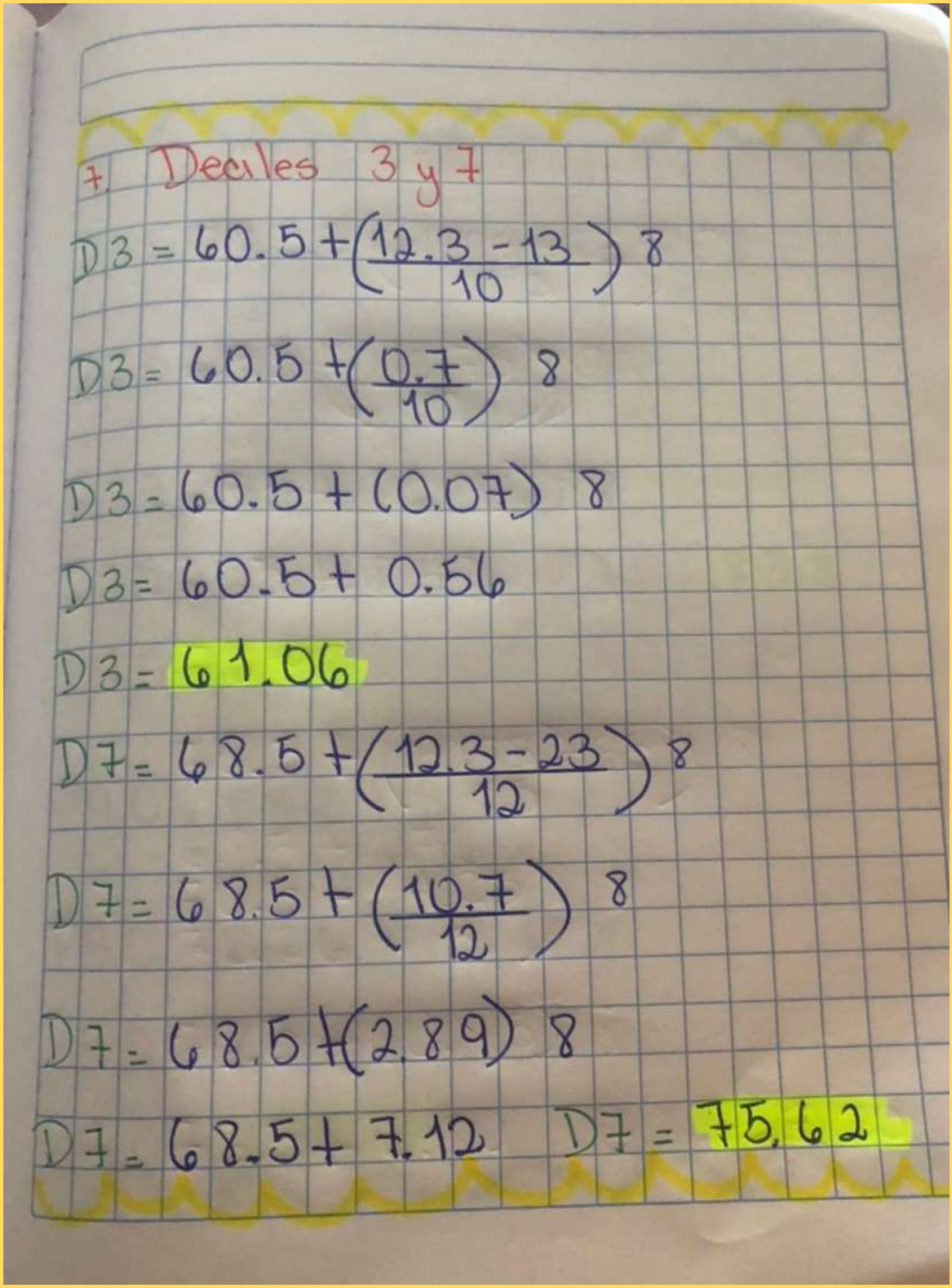
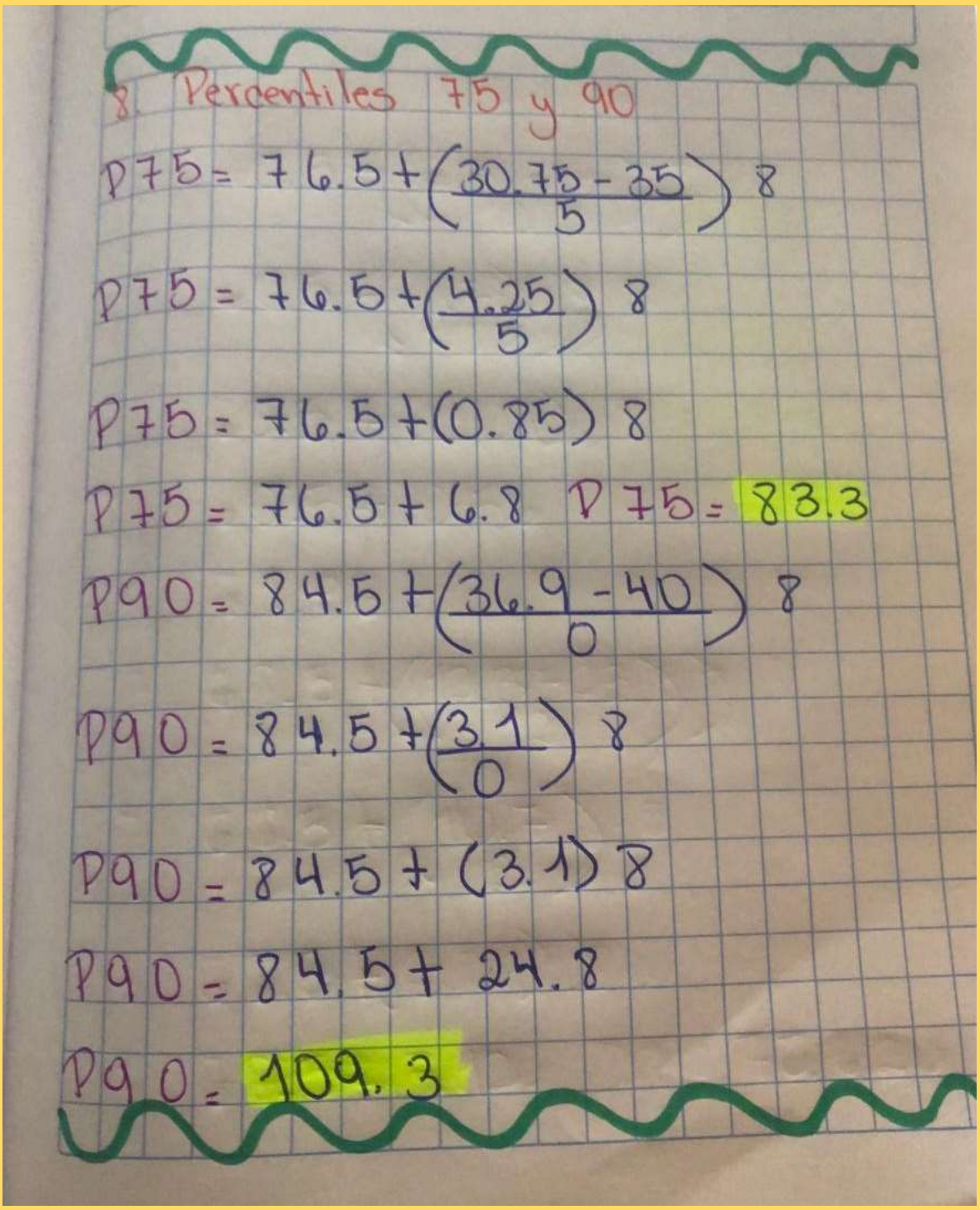

6. Cuartiles 1 y 3
Q1 = 68.5 + ((10.25 - 23)/12) 8
Q1 = 68.5 + (12.75/12) 8
Q1 = 68.5 + (1.06) 8
Q1 = 68.5 + 8.48
Q1 = 76.98
Q3 = 76.5 + ((30.75 - 35)/5) 8
Q3 = 76.5 + (4.25/5) 8
Q3 = 76.5 + (0.85) 8
Q3 = 76.5 + 6.80
Q3 = 83.30

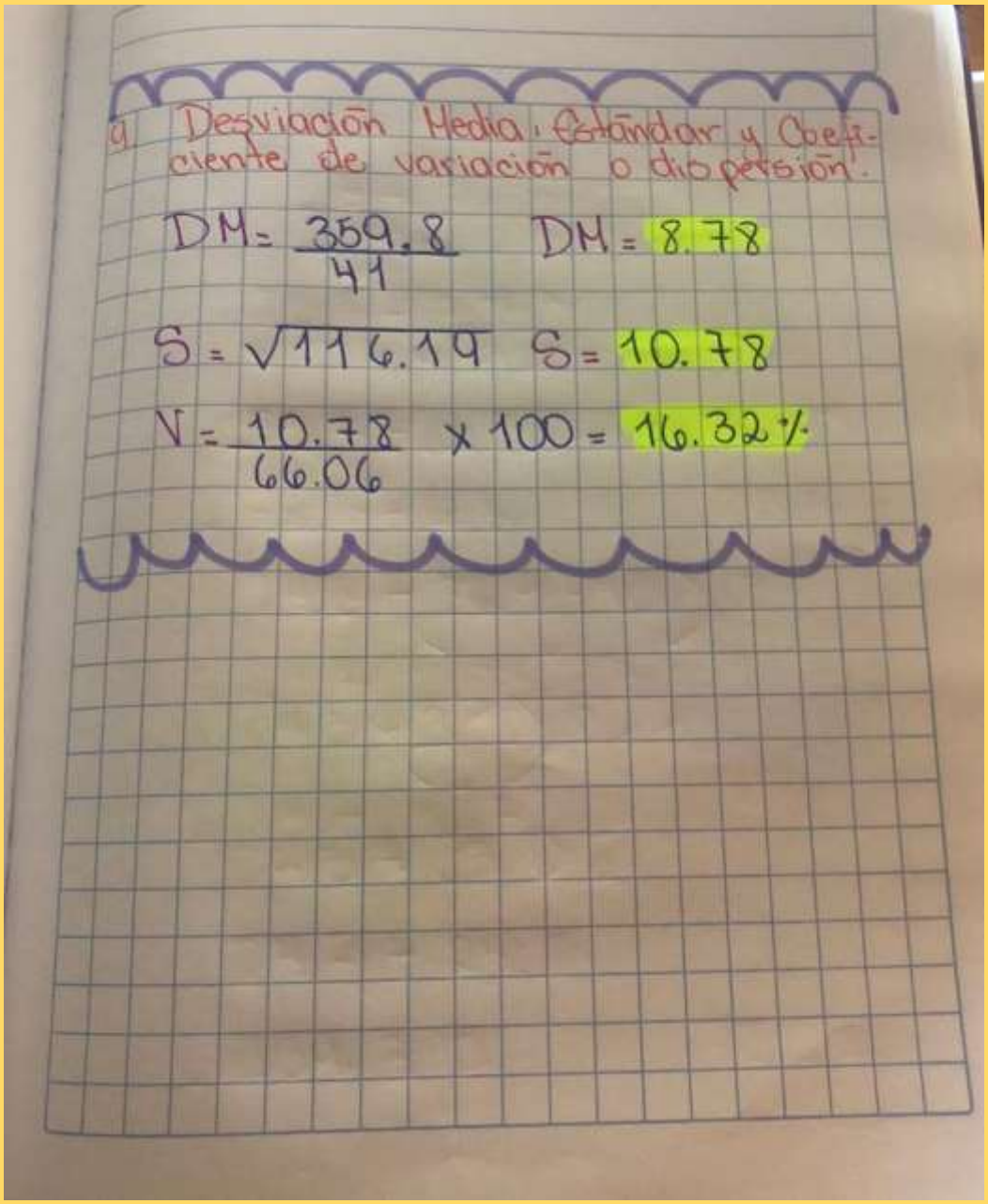
Tabla de datos con intervalos

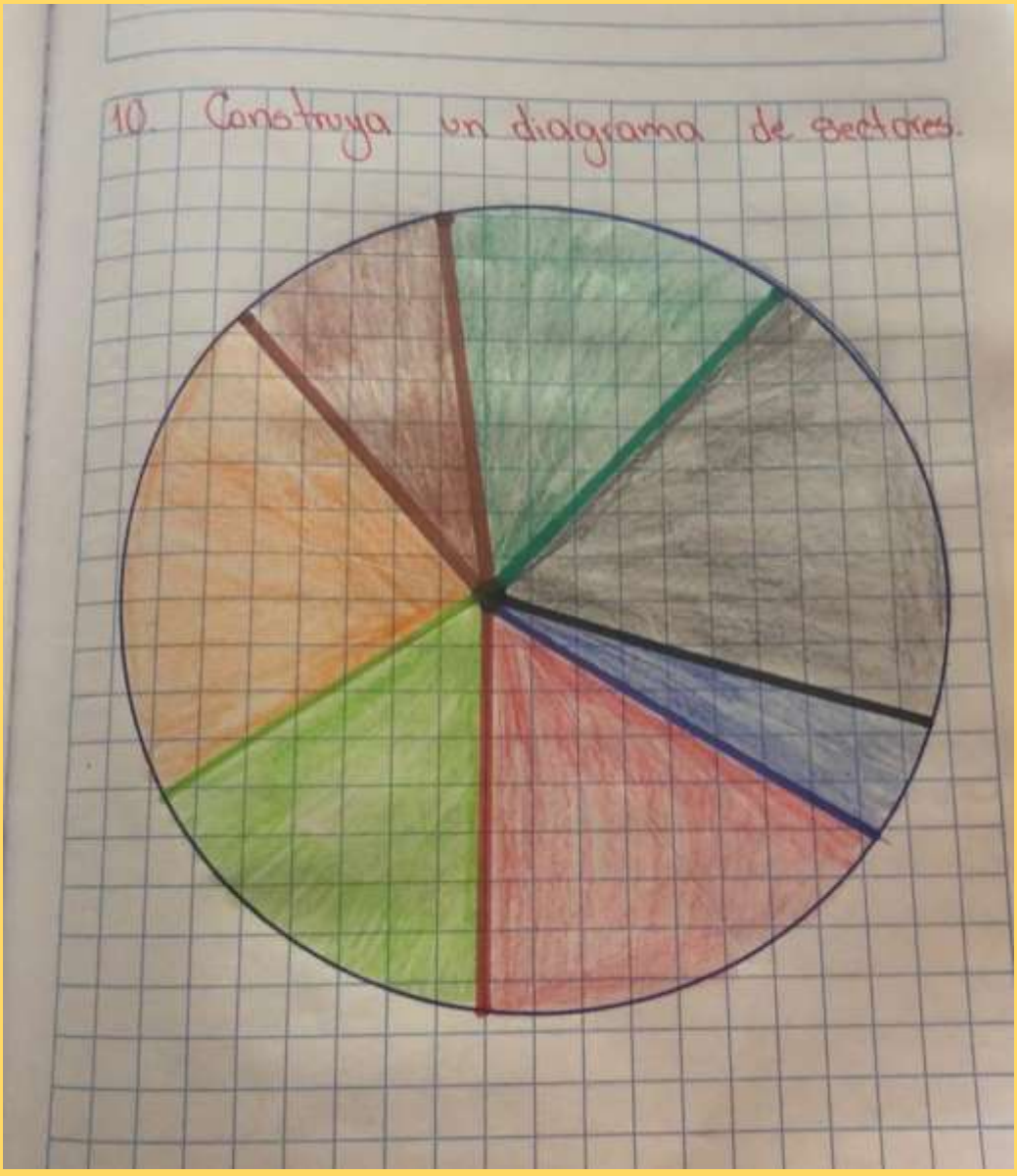
K	L - A	Lri	Lrs	xs	f	Fa	fxs
1	45 - 52	44.5	52.5	48.5	5	5	242.5
2	53 - 60	52.5	60.5	56.5	8	13	452
3	61 - 68	60.5	68.5	64.5	10	23	645
4	69 - 76	68.5	76.5	72.5	12	35	870
5	77 - 84	76.5	84.5	80.5	5	40	402.5
6	85 - 92	84.5	92.5	88.5	0	40	0
7	93 - 100	92.5	100.5	96.5	1	41	96.5
					41		2,708.5

|d|	$(xs-\bar{x})$	f|d|	$(xs-\bar{x})^2$	$f(xs-\bar{x})^2$
17.56	87.8	308.35	1.5	41.95
9.56	76.48	91.39		31.12
1.56	15.6	2.43		24.3
6.44	77.28	41.47		497.64
14.44	72.2	208.51		1,042.55
22.44	0	503.55		0
30.44	30.44	926.59		926.59
	359.8			4,763.95


7. Deciles 3 y 7
$D3 = 60.5 + \left(\frac{12.3 - 13}{10}\right) 8$
$D3 = 60.5 + \left(\frac{0.7}{10}\right) 8$
$D3 = 60.5 + (0.07)\ 8$
$D3 = 60.5 + 0.56$
$D3 = 61.06$
$D7 = 68.5 + \left(\frac{12.3 - 23}{12}\right) 8$
$D7 = 68.5 + \left(\frac{10.7}{12}\right) 8$
$D7 = 68.5 + (2.89)\ 8$
$D7 = 68.5 + 7.12$
$D7 = 75.62$


8 Percentiles 75 y 90
P75 = 76.5 + (30.75 - 35 / 5) 8
P75 = 76.5 + (4.25 / 5) 8
P75 = 76.5 + (0.85) 8
P75 = 76.5 + 6.8 P75 = 83.3
P90 = 84.5 + (36.9 - 40 / 0) 8
P90 = 84.5 + (3.1 / 0) 8
P90 = 84.5 + (3.1) 8
P90 = 84.5 + 24.8
P90 = 109.3


4) Desviación Media, Estándar y Coeficiente de variación o dispersión.
DM = 359.8 / 41 DM = 8.78
S = √116.19 S = 10.78
V = 10.78 / 66.06 x 100 = 16.32%


10. Construya un diagrama de sectores.