´´IPRAM ´´

NOMBRE: Elsy Regina Maldonado Castillo

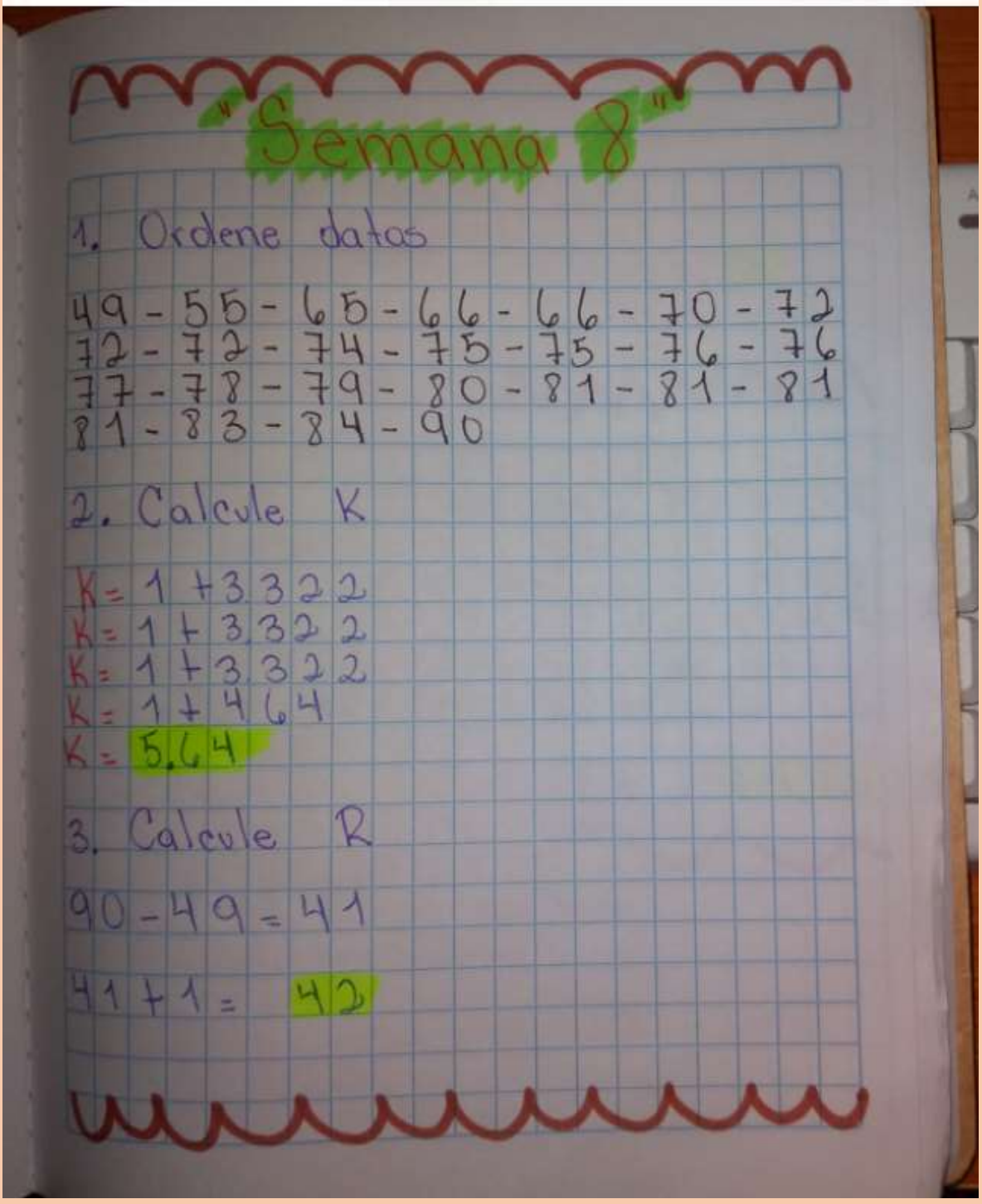
CARRERA: 4to Perito en administración de empresas

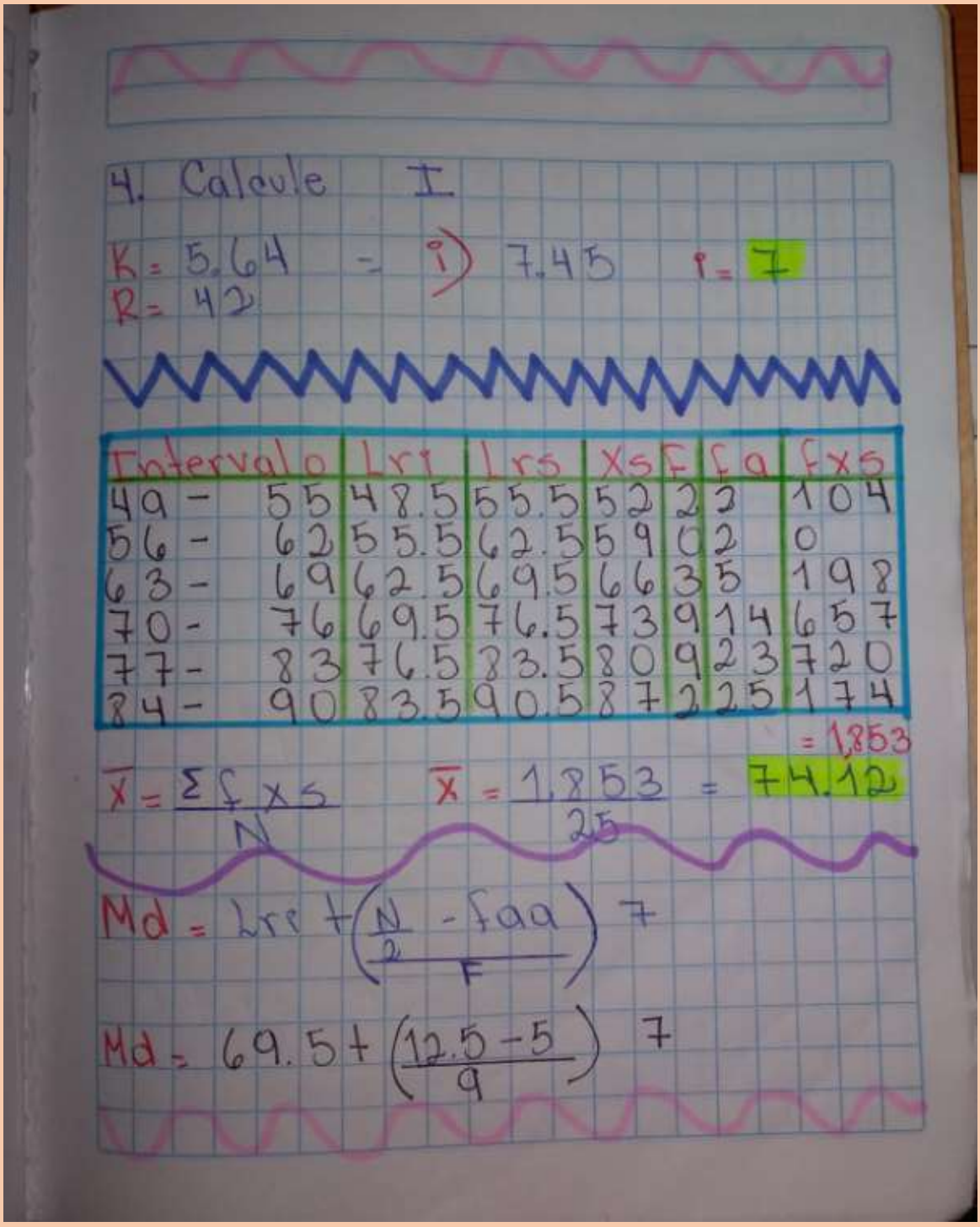
CURSO: Estadística

DOCENTE: Josué Estrada

TRABAJO: Semana 8

FECHA DE ENTREGA: 1/9/2021


"Semana 8"
1. Ordene datos
49 - 55 - 65 - 66 - 66 - 70 - 72
72 - 72 - 74 - 75 - 75 - 76 - 76
77 - 78 - 79 - 80 - 81 - 81 - 81
81 - 83 - 84 - 90
2. Calcule K
K = 1 + 3 3 2 2
K = 1 + 3 3 2 2
K = 1 + 3 3 2 2
K = 1 + 4 6 4
K = 5 6 4
3. Calcule R
90 - 49 = 41
41 + 1 = 42



4. Calcule I

K = 5.64 ≈ i) 7.45 i = 7

R = 42

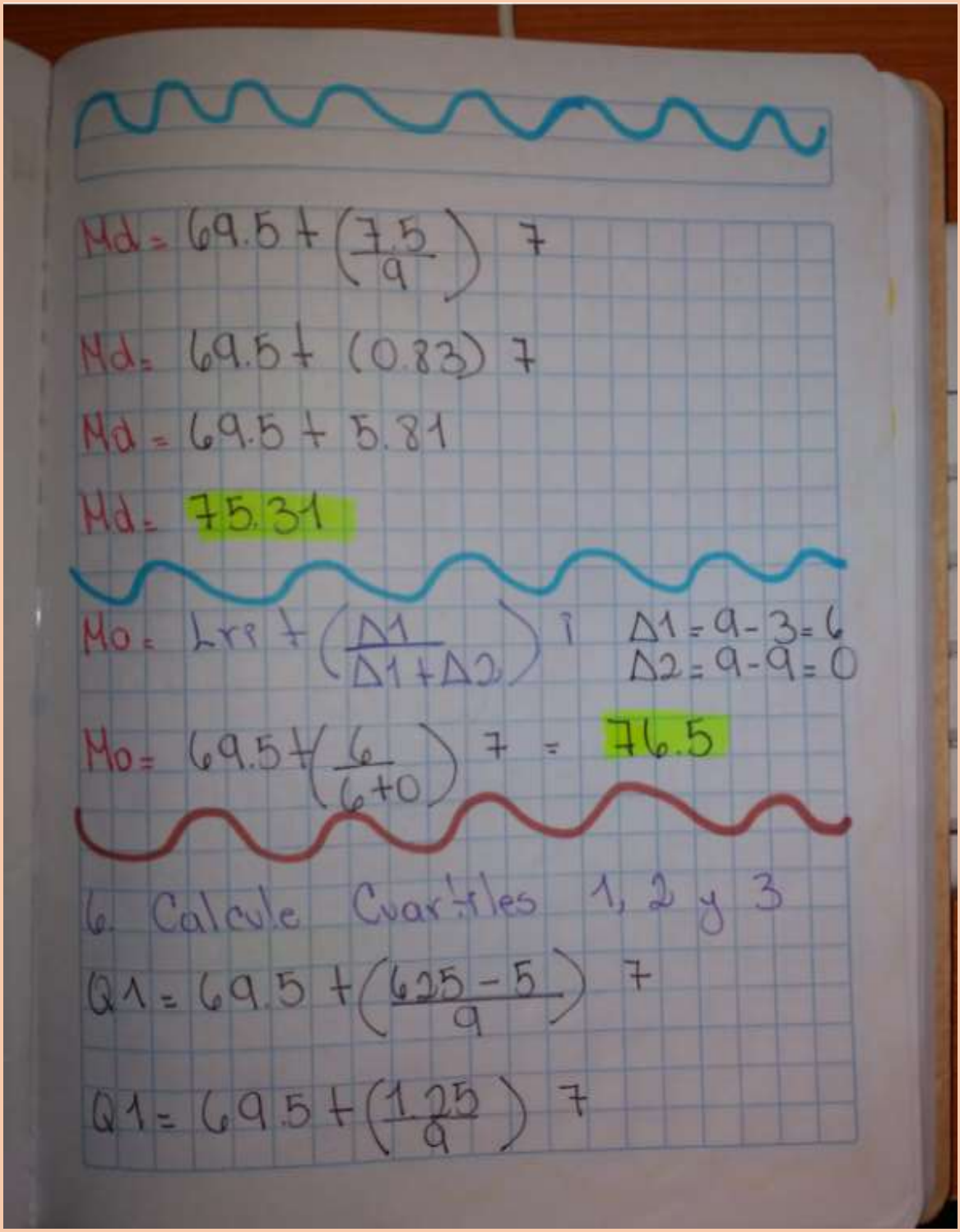
Intervalo	Lri	Lrs	Xs	F	fa	fxs
49 - 55	48.5	55.5	52	2	2	104
56 - 62	55.5	62.5	59	0	2	0
63 - 69	62.5	69.5	66	3	5	198
70 - 76	69.5	76.5	73	9	14	657
77 - 83	76.5	83.5	80	9	23	720
84 - 90	83.5	90.5	87	2	25	174

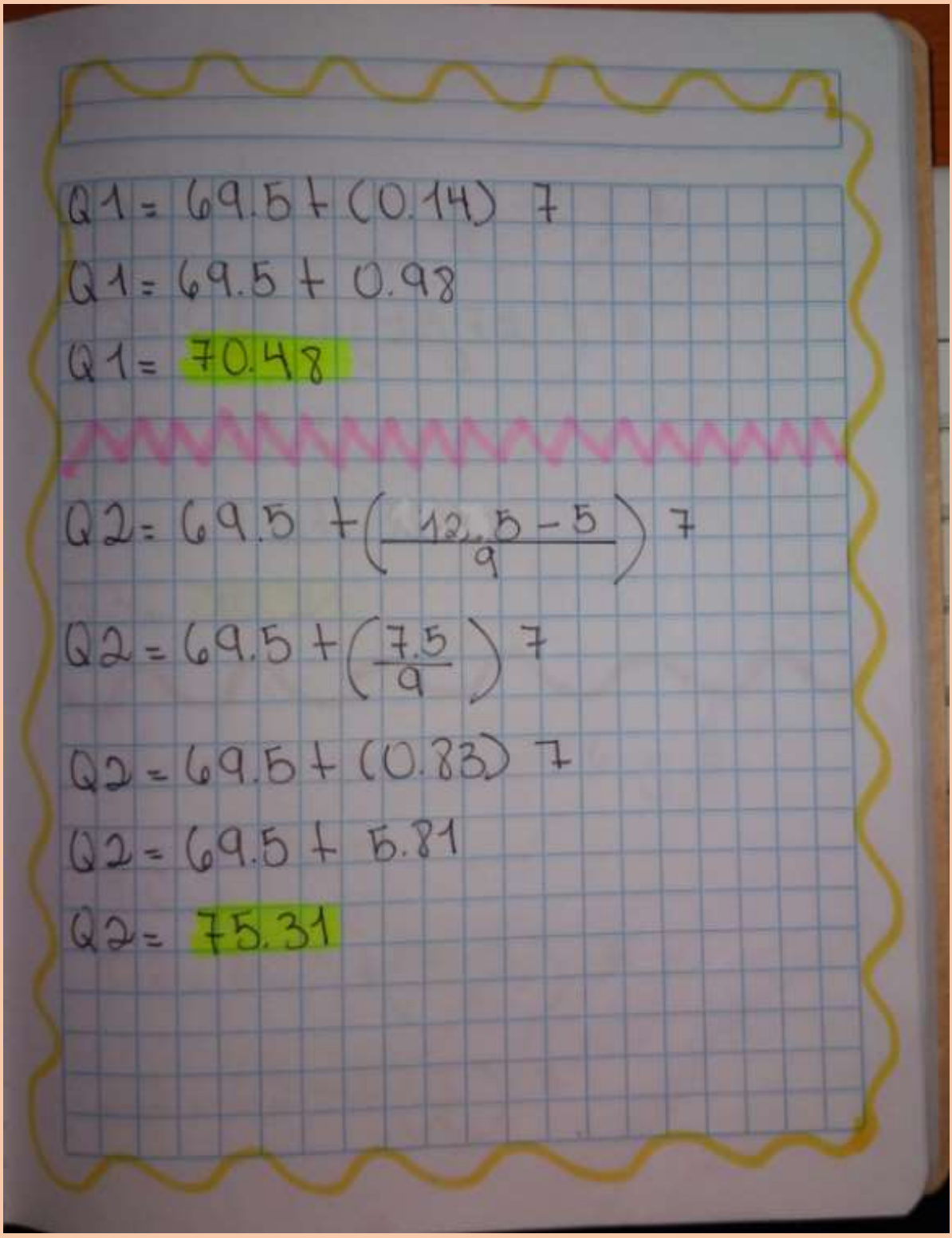
= 1,853

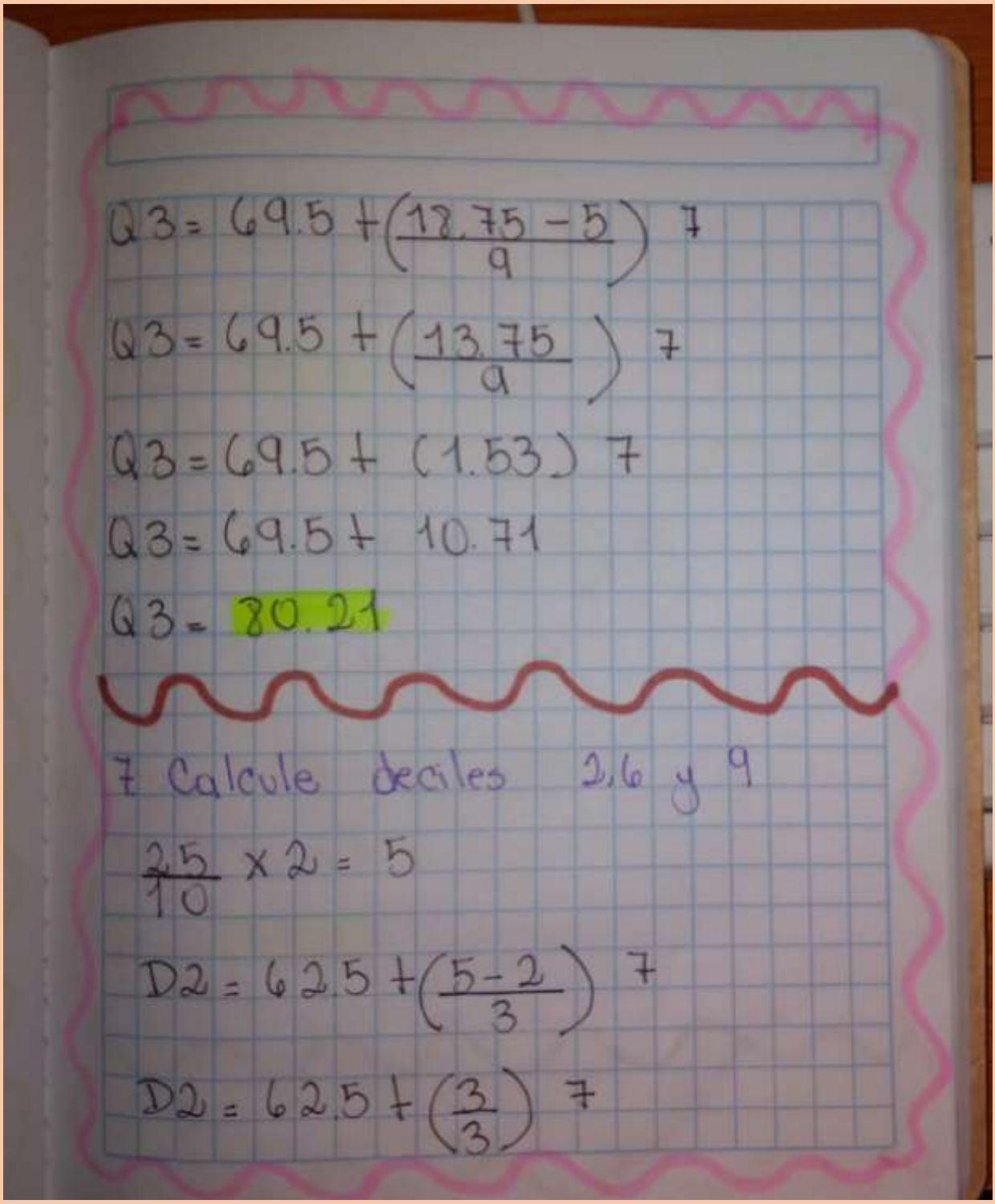
$\bar{x} = \frac{\Sigma f xs}{N}$ $\bar{x} = \frac{1,853}{25} = 74.12$

$Md = Lri + \left(\frac{\frac{N}{2} - faa}{F}\right) 7$

$Md = 69.5 + \left(\frac{12.5 - 5}{9}\right) 7$


Md = 69.5 + (7.5/9) 7
Md = 69.5 + (0.83) 7
Md = 69.5 + 5.81
Md = 75.31
Mo = Lrs + (Δ1/Δ1+Δ2) i
Δ1 = 9-3 = 6
Δ2 = 9-9 = 0
Mo = 69.5 + (6/6+0) 7 = 76.5
6. Calcule Cuartiles 1, 2 y 3
Q1 = 69.5 + (6.25-5/9) 7
Q1 = 69.5 + (1.25/9) 7


Q1 = 69.5 + (0.14) 7
Q1 = 69.5 + 0.98
Q1 = 70.48
Q2 = 69.5 + (12.5 - 5 / 9) 7
Q2 = 69.5 + (7.5 / 9) 7
Q2 = 69.5 + (0.83) 7
Q2 = 69.5 + 5.81
Q2 = 75.31



$$Q3 = 69.5 + \left(\frac{13.75 - 5}{9}\right) 7$$

$$Q3 = 69.5 + \left(\frac{13.75}{9}\right) 7$$

$$Q3 = 69.5 + (1.53)\ 7$$

$$Q3 = 69.5 + 10.71$$

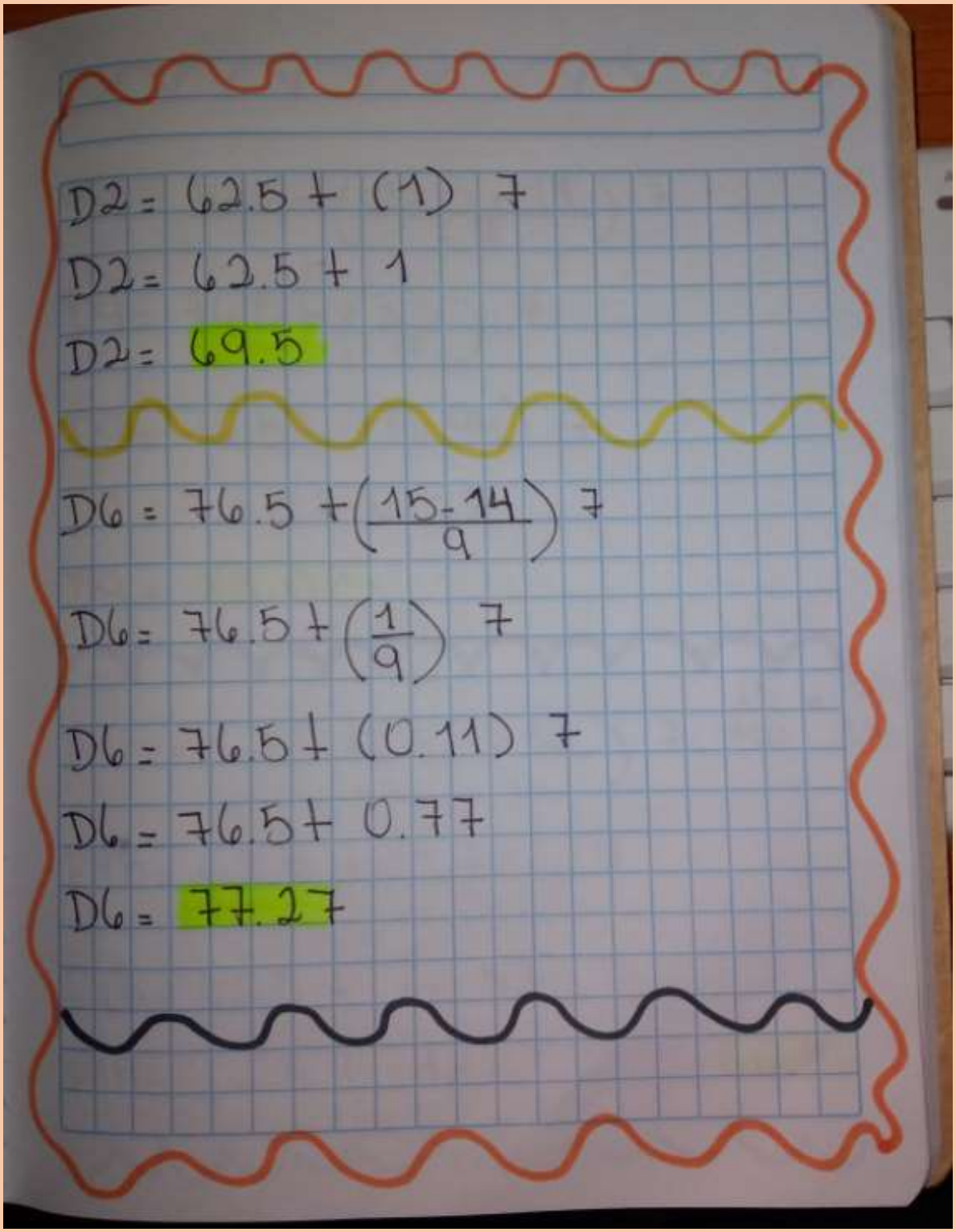
$$Q3 = 80.21$$

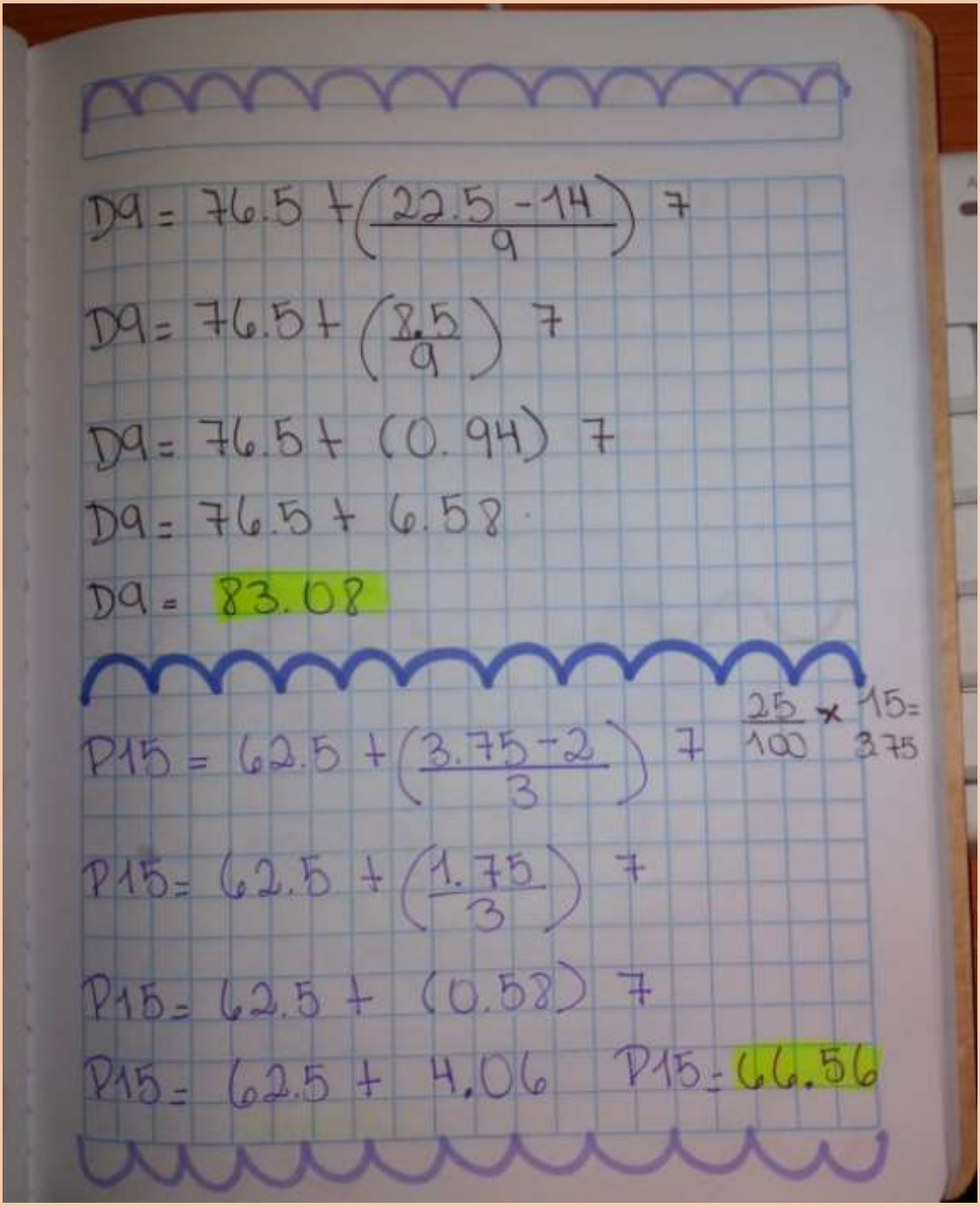
7 Calcule deciles 2, 6 y 9

$$\frac{25}{10} \times 2 = 5$$

$$D2 = 62.5 + \left(\frac{5 - 2}{3}\right) 7$$

$$D2 = 62.5 + \left(\frac{3}{3}\right) 7$$


D2 = 62.5 + (1) 7
D2 = 62.5 + 1
D2 = 69.5
D6 = 76.5 + (15-14 / 9) 7
D6 = 76.5 + (1/9) 7
D6 = 76.5 + (0.11) 7
D6 = 76.5 + 0.77
D6 = 77.27



$$D9 = 76.5 + \left(\frac{22.5 - 14}{9}\right) 7$$

$$D9 = 76.5 + \left(\frac{8.5}{9}\right) 7$$

$$D9 = 76.5 + (0.94)\ 7$$

$$D9 = 76.5 + 6.58$$

$$D9 = 83.08$$

$$P15 = 62.5 + \left(\frac{3.75 - 2}{3}\right) 7$$

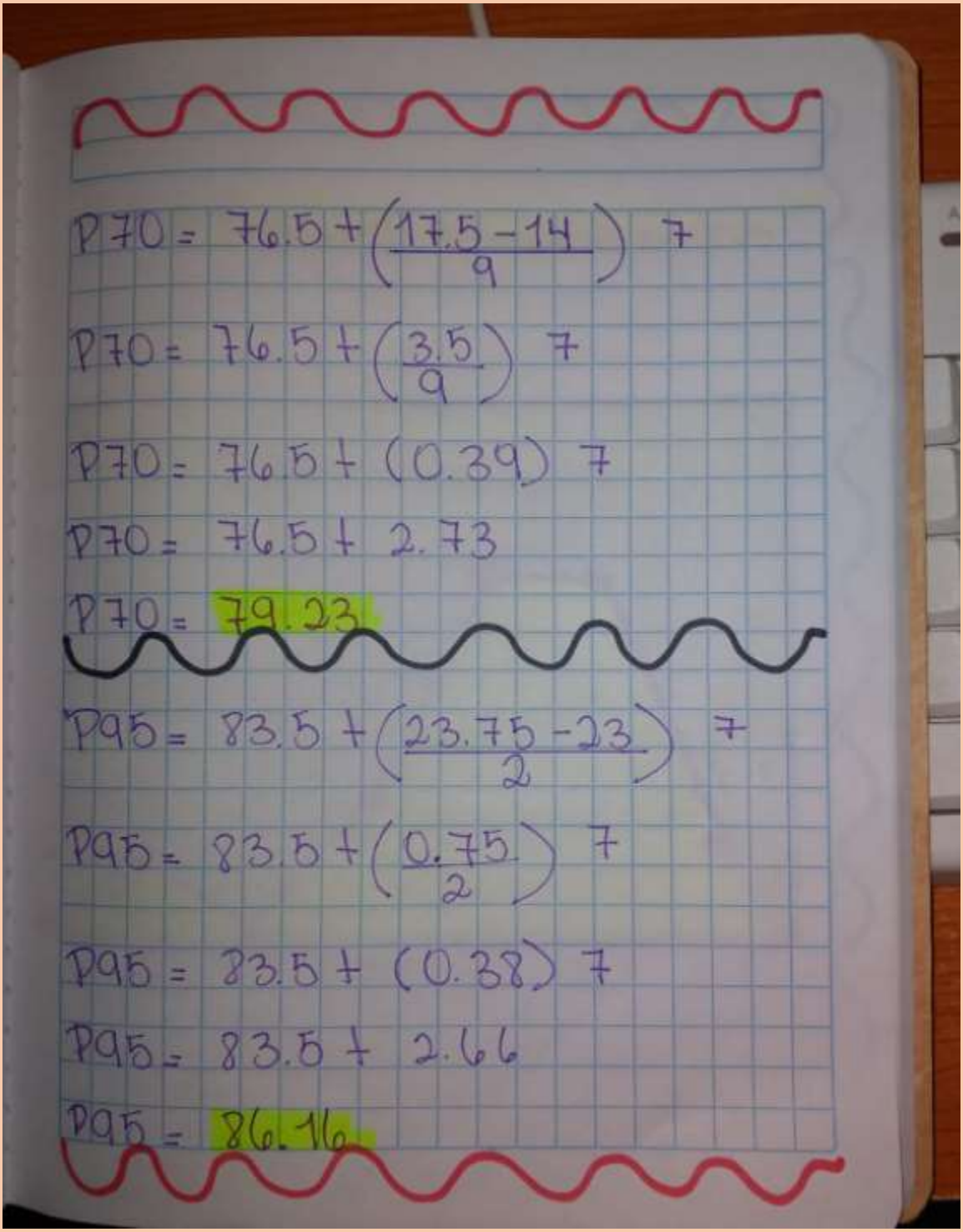
$\frac{25}{100} \times 15 = 3.75$

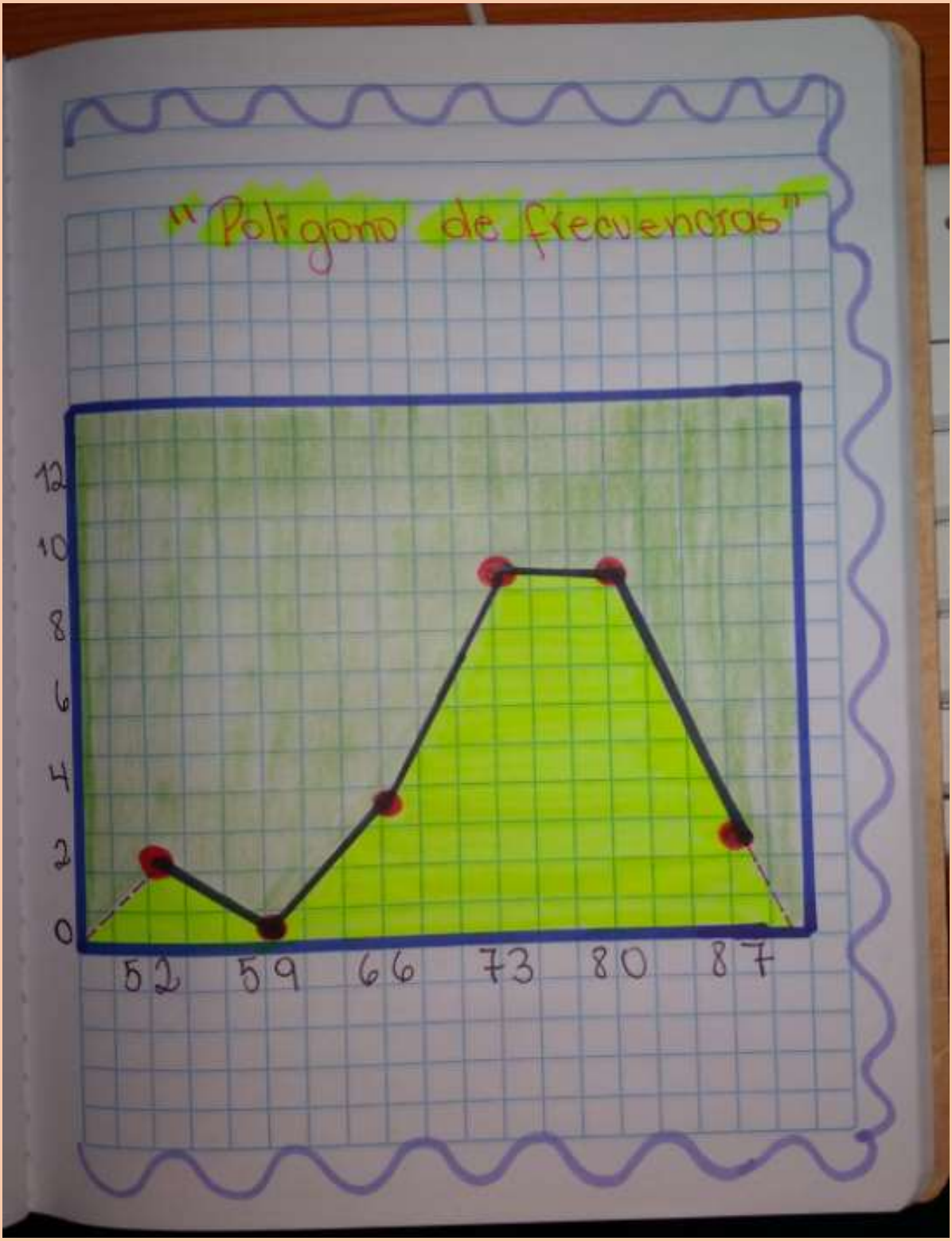
$$P15 = 62.5 + \left(\frac{1.75}{3}\right) 7$$

$$P15 = 62.5 + (0.58)\ 7$$

$$P15 = 62.5 + 4.06$$

$P15 = 66.56$


P70 = 76.5 + (17.5 - 14 / 9) 7
P70 = 76.5 + (3.5 / 9) 7
P70 = 76.5 + (0.39) 7
P70 = 76.5 + 2.73
P70 = 79.23
P95 = 83.5 + (23.75 - 23 / 2) 7
P95 = 83.5 + (0.75 / 2) 7
P95 = 83.5 + (0.38) 7
P95 = 83.5 + 2.66
P95 = 86.16


"Poligono de frecuencias"
12
10
8
6
4
2
0
52
59
66
73
80
87