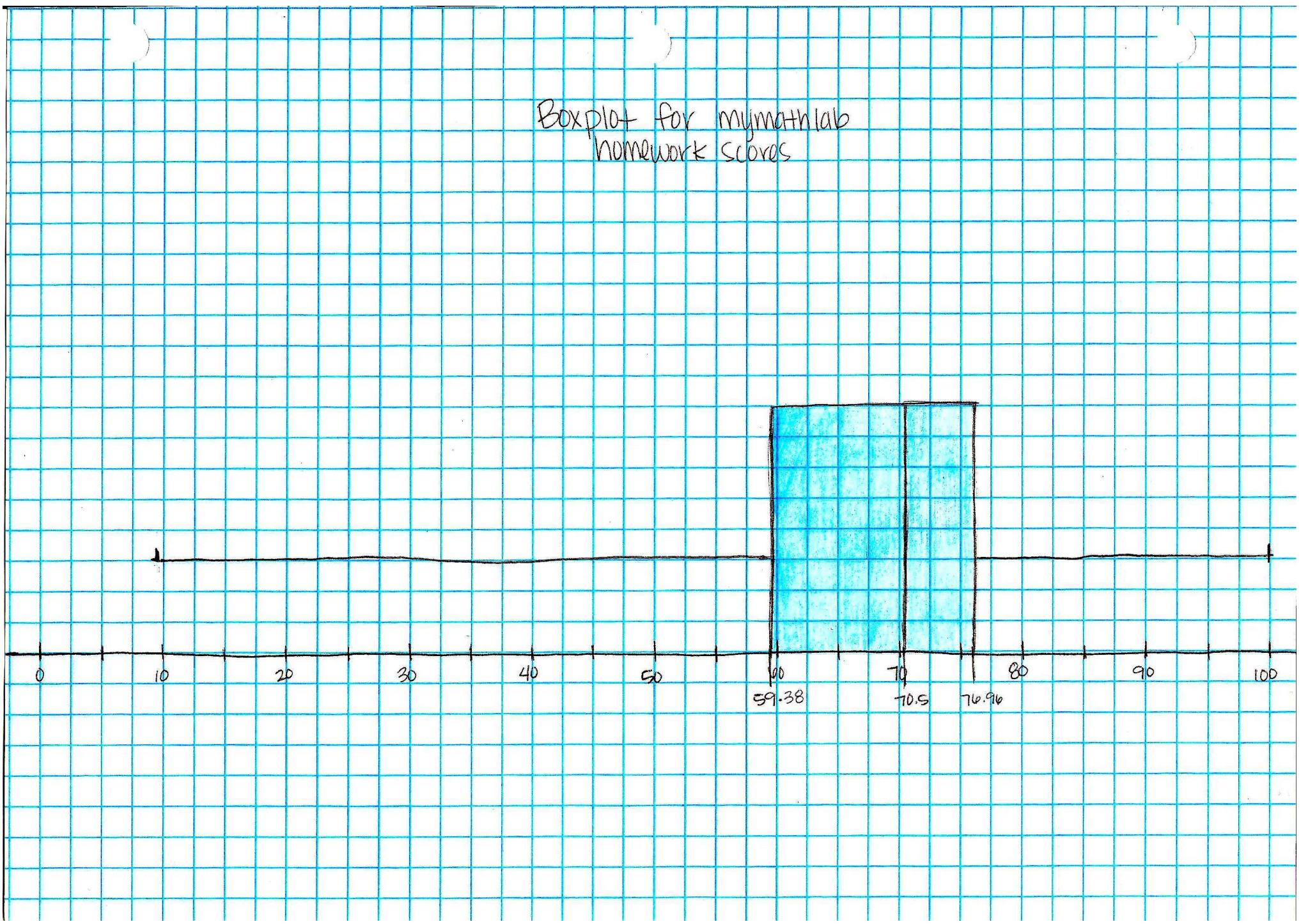
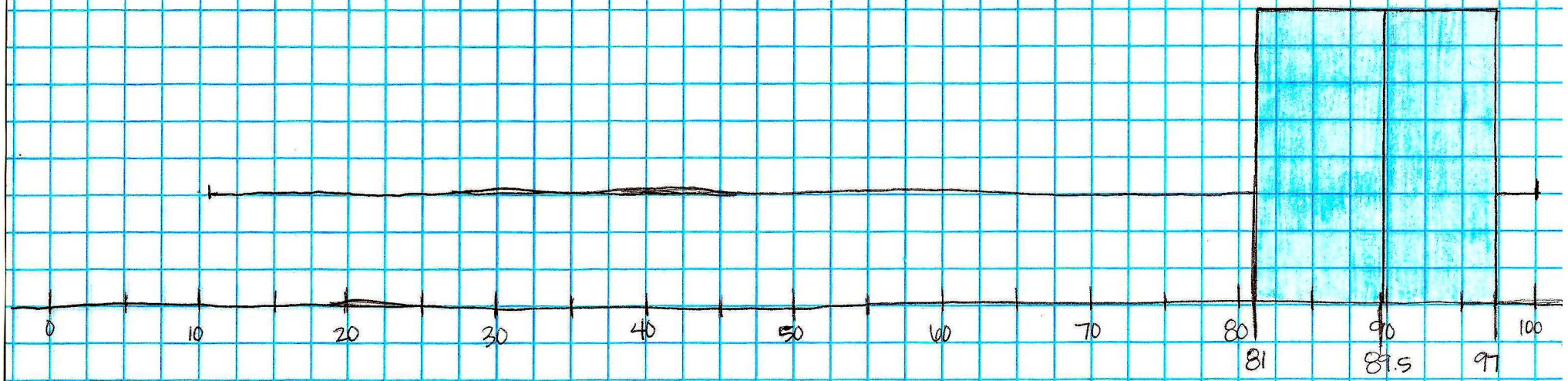
Boxplot for mymathlab homework scores



Boxplot for First Test Scores



Information for Histograms

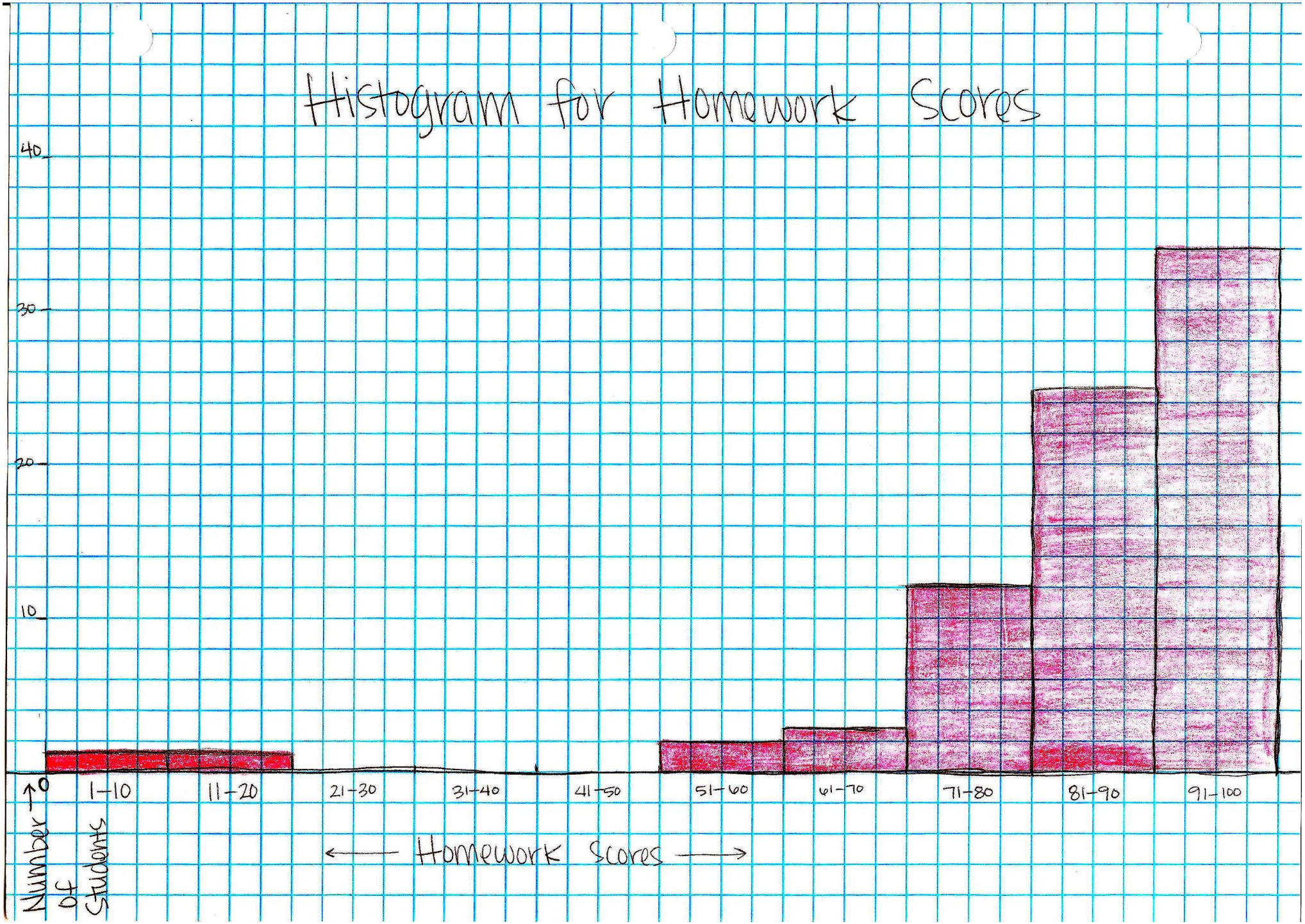
Homework scores

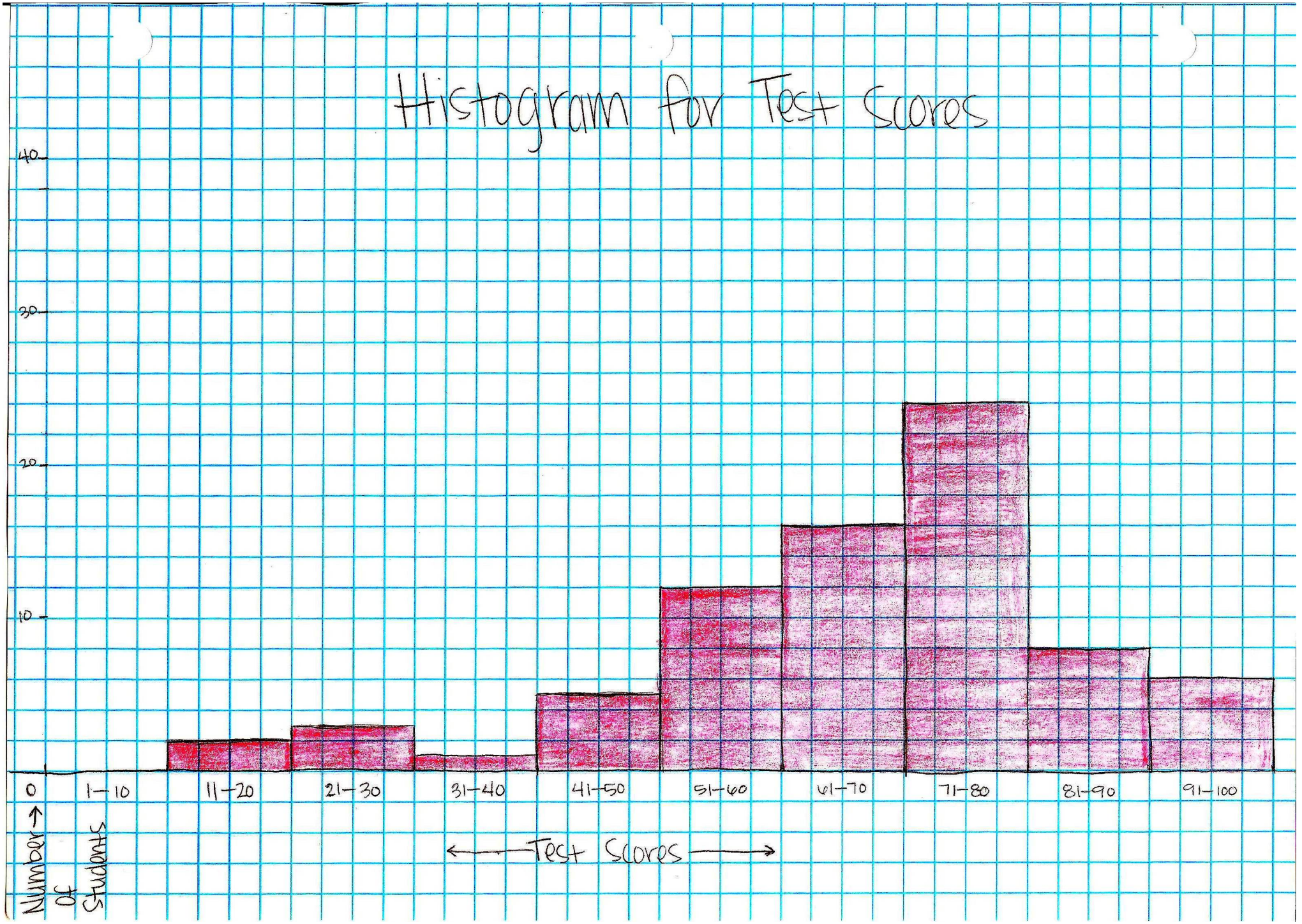
Class	Scores that fall within each class
1 – 10	1
11 – 20	1
21 – 30	
31 – 40	
41 – 50	
51 – 60	11
61 – 70	111
71 – 80	𝍸 𝍸 11
81 – 90	𝍸 𝍸 𝍸 𝍸 𝍸
91 – 100	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 1111

Test scores

Class	Scores that fall within each class
1 – 10	
11 – 20	11
21 – 30	111
31 – 40	1
41 – 50	𝍸
51 – 60	𝍸 𝍸 11
61 – 70	𝍸 𝍸 𝍸 1
71 – 80	𝍸 𝍸 𝍸 𝍸 1111
81 – 90	𝍸 111
91 – 100	𝍸 1

Histogram for Homework Scores




Histogram for Test Scores
40
30
20
10
0
1–10
11–20
21–30
31–40
41–50
51–60
61–70
71–80
81–90
91–100
Number of Students
Test Scores

Least Squares Regression Line

$\hat{y} = b_1 x + b_0$

$b_1 = r \cdot \frac{s_y}{s_x}$

$b_0 = \bar{y} - b_1 \bar{x}$

$r = .56$

$s_y = 4.29$

$s_x = 3.97$

$\bar{x} = 85.96$

$\bar{y} = 67.6$

$b_1 = .56 \times \frac{4.29}{3.97}$

$b_1 = .605138539904$

$b_0 = 67.6 - .605138539904(85.96)$

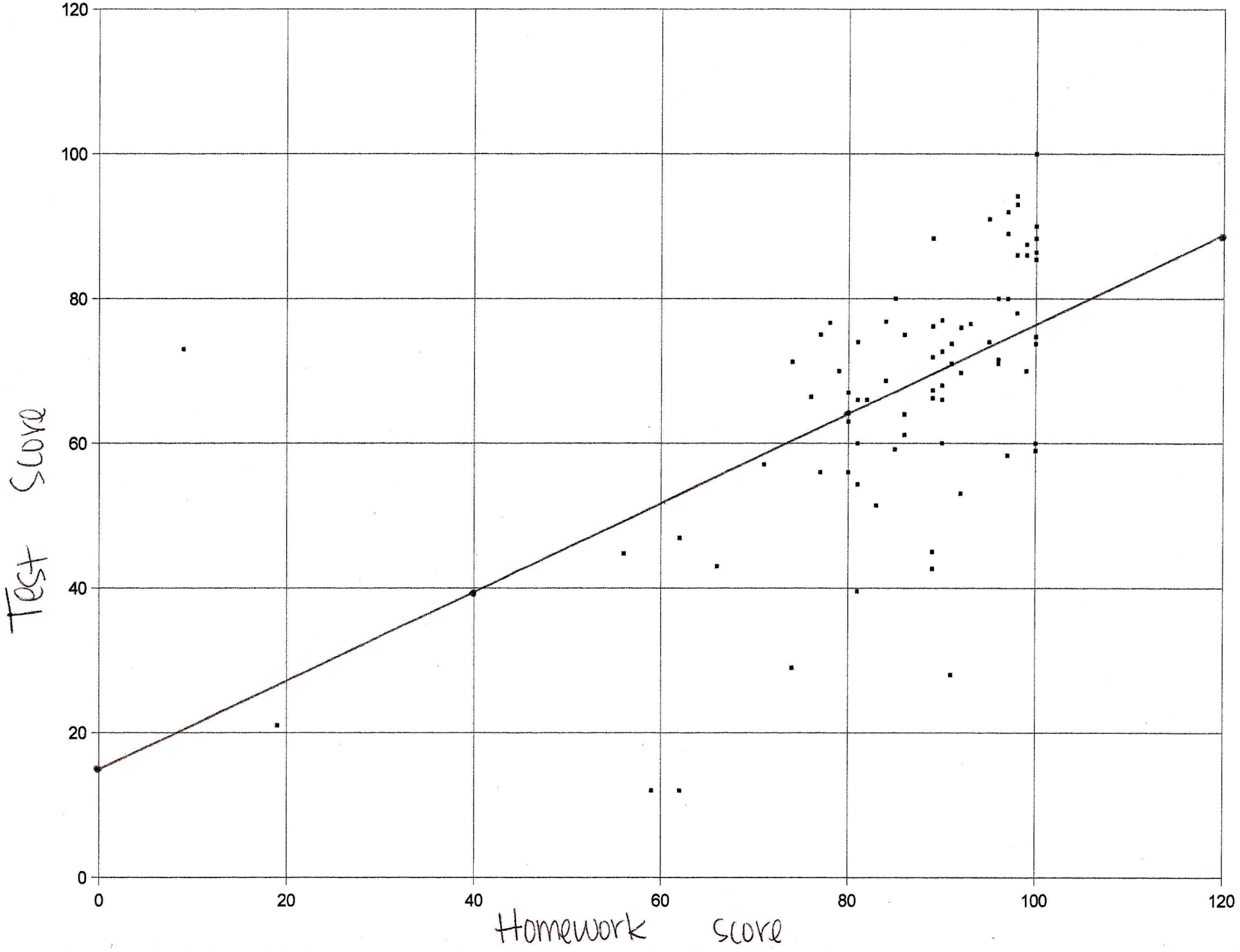
$b_0 = 15.58$

$\hat{y} = .605138539904x + 15.58$

Regression Line for Scatterplot

$$\hat{y} = .6051385390 4x + 15.58$$

X	Y
0	$.6051385390 4(0) + 15.58 = 15.58$
40	$.6051385390 4(40) + 15.58 = 39.78554156$
80	$.6051385390 4(80) + 15.58 = 63.99108312$
120	$.6051385390 4(120) + 15.58 = 88.19662468$


120
100
80
60
40
20
0
Test Score
0
20
40
60
80
100
120
Homework Score