

observation	weight (y)	height (x)
1	63	13
2	70.7	23
3	92.3	33
4	89.1	30
5	72.9	25
6	78.3	28
7	67.5	20
8	74.3	23
9	76.5	25
10	81	30
11	76.5	28
12	72.9	23
13	74.3	25
14	81	30
15	72	20
16	69.8	23
17	74.3	25
18	85.5	38
19	83.3	33
20	69.8	28
n	avg(y)	avg(x)
20	76.25	26.15

vector y	matrix X	
63	1	13
70.7	1	23
92.3	1	33
89.1	1	30
72.9	1	25
78.3	1	28
67.5	1	20
74.3	1	23
76.5	1	25
81	1	30
76.5	1	28
72.9	1	23
74.3	1	25
81	1	30
72	1	20
69.8	1	23
74.3	1	25
85.5	1	38
83.3	1	33
69.8	1	28

pred. weight	residual	miss	gain	(residual)^2
61.29	1.71	0	0.5	2.94
72.67	-1.97	0	0.5	3.86
84.05	8.25	1	-0.6	68.14
80.63	8.47	1	-0.6	71.72
74.94	-2.04	0	0.5	4.17
78.36	-0.06	0	0.5	0.00
69.25	-1.75	0	0.5	3.07
72.67	1.63	0	0.5	2.67
74.94	1.56	0	0.5	2.43
80.63	0.37	0	0.5	0.14
78.36	-1.86	0	0.5	3.44
72.67	0.23	0	0.5	0.06
74.94	-0.64	0	0.5	0.41
80.63	0.37	0	0.5	0.14
69.25	2.75	0	0.5	7.56
72.67	-2.87	0	0.5	8.21
74.94	-0.64	0	0.5	0.41
89.74	-4.24	0	0.5	17.94
84.05	-0.75	0	0.5	0.56
78.36	-8.56	1	-0.6	73.19
sum	sum	sum	sum	
0.00	6.7	271.0	13.55	
avg				

model from the setup	
beta_0	46.49
beta_1	1.14

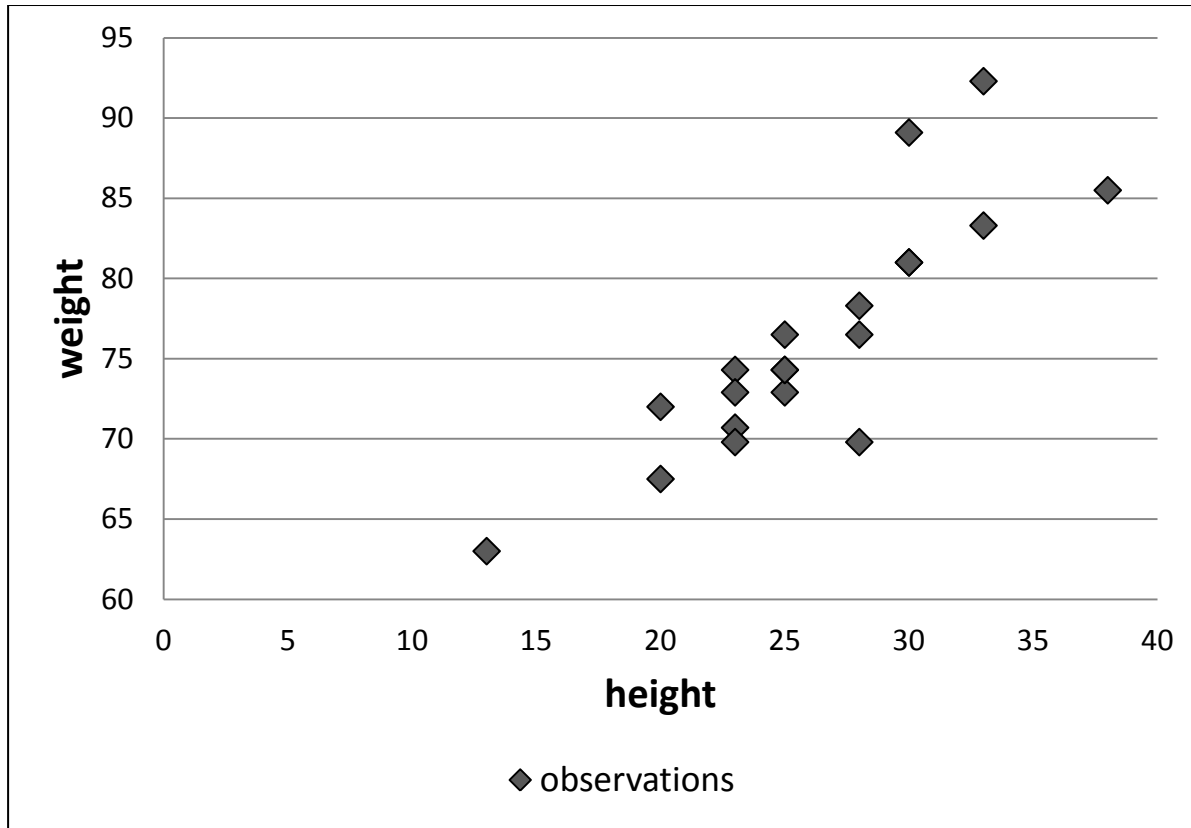
1	1	1	1	1	1	1	1	1	1
13	23	33	30	25	28	20	23	25	30

matrix X'X	
20	523
523	14259

matrix (X'X)^(-1)	
1.22	-0.04
-0.04	0.00

X'y
1525
40542

(X'X)^(-1) X'y	estimated
46.49	beta_0
1.14	beta_1



X'									
1	1	1	1	1	1	1	1	1	1
28	23	25	30	20	23	25	38	33	28