

Statistics Practice Assessment Juniors

Bivariate Investigation

Name: _____

Problem

I wonder if there is a relationship between a students' shoulder width and height?

Plan

State what the two variables you are investigating are.

Then write a detailed plan of how you are going to take these measurements.

Measure Variable 1: _____

Plan:

[illegible]

Measure Variable 2: _____

Plan:

[illegible]

[illegible]

Data

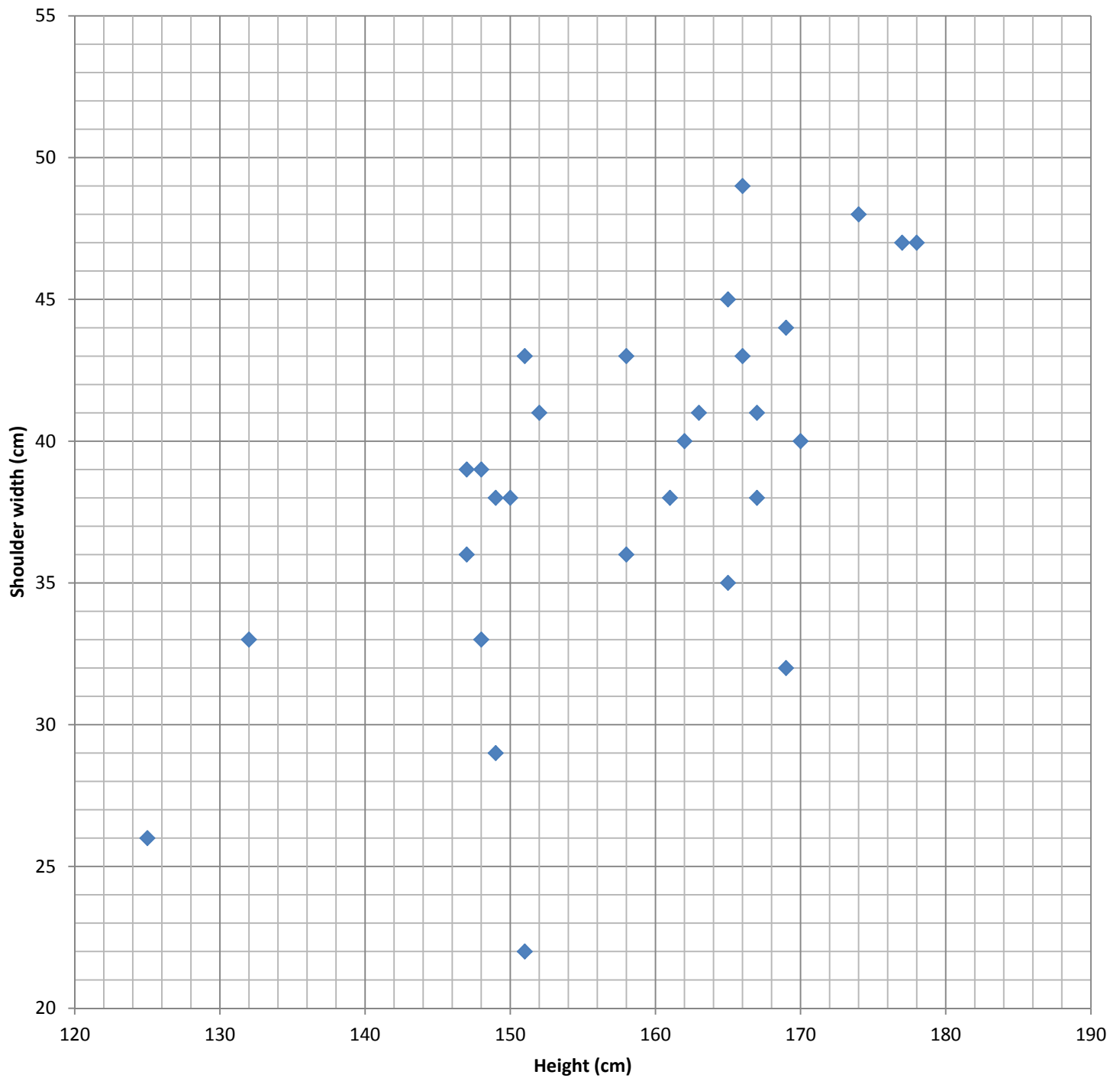
Measure and record data for 4 students in your class.

Sample	Height	Shoulder width	Sample	Height	Shoulder width
1			16	158	43
2			17	177	47
3			18	152	41
4			19	161	38
5	174	48	20	158	36
6	165	35	21	167	41
7	149	38	22	151	43
8	163	41	23	165	45
9	148	39	24	149	29
10	147	39	25	162	40
11	170	40	26	166	43
12	167	38	27	178	47
13	147	36	28	169	32
14	148	33	29	150	38
15	132	33	30	125	26

Analysis

Add your 4 measurements to the scatterplot below.

Add a line of best fit to your data.



Analysis

Describe the relationship. This may include the strength, direction and type of relationship. Justify your description.

[illegible]

Conclusion

Answer the investigation question.

Discussion of sampling variability (taking another sample, changing sample size, etc.)
