

In each of the following situations, determine if there is a clear explanatory and response variable or if it is just a relationship between two variables.

4.1)

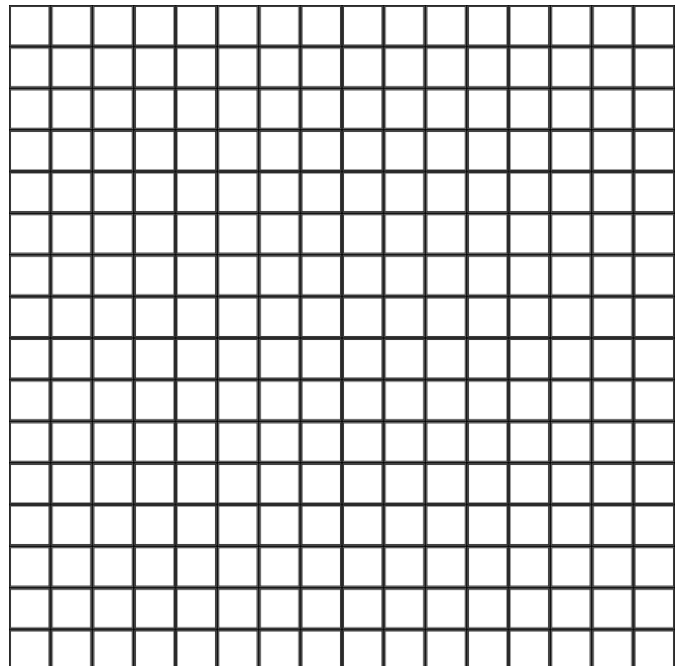
- a. The amount of time spent studying for a statistics exam and the grade on the exam.
- b. The weight in kilograms and height in centimeters of a person.
- c. Inches of rain in the growing season and the yield of corn in bushels per acre.
- d. A student's scores on the SAT Math test and the SAT Critical Reading test.

4.2)

- a. A family's income and the years of education their eldest child completes.
- b. Price of a house and square footage of the house.
- c. The arm span and height of a person.
- d. Amount of snow in the Colorado mountains and the volume of water in area rivers.

Missing Assignments - Construct a scatterplot and describe the relationship between your grade and the number of missing assignments.

Overall Grade	Missing Assignments
49	20
92	0
4	22
81	2
51	10
90	0
94	0
37	15
70	7
47	19
19	17
86	5



Name the explanatory and response variables.

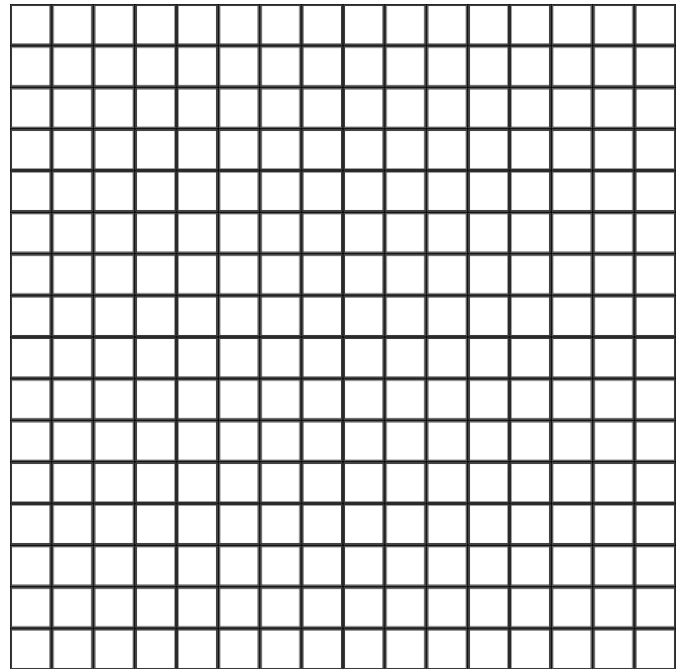
Explanatory Variable: _____ Response Variable: _____

Describe what the graph tells you about the relationship between the two variables. Is this a positive or negative relationship?

Midterm Grades

Using the following data from our first block, construct a scatterplot and describe the relationship between midterm grade and total absences.

Midterm Grade	ABSENCES
72	3
59	4
0	14
92	3
72	0
95	0
70	2
64	4
95	0
89	2
78	5
75	2
100	1
0	13
100	2
92	0
64	3
67	15
0	16
78	6
92	0
70	4
95	1
67	8
95	3
84	0
86	4
72	0



Name the explanatory and response variables.

Explanatory Variable: _____

Response Variable: _____

Describe what the graph tells you about the relationship between the two variables. Is this a positive or negative relationship?