



Name

Score

Solve and show all steps.

A teacher records the number of hours students studied and their corresponding test scores as follows:

Hours Studied	Test Score
1	50
2	55
3	60
4	65
5	70
6	75
7	80

Create a scatter plot for the data and describe the relationship between the number of hours studied and the test scores.

A researcher is studying the relationship between the number of hours spent exercising per week and the cholesterol levels of a group of individuals.

The data collected is as follows:

Hours Exercised	Cholesterol Level (mg/dL)
1	220
2	210
3	200
4	195
5	190
6	185
7	180

Create a scatter plot for the data and describe the relationship between the number of hours exercised and the cholesterol levels.



Scatter Plots



Answer Key

Solve and show all steps.

Scatter Plot: Plot the points (1, 50), (2, 55), (3, 60), (4, 65), (5, 70), (6, 75), and (7, 80) on a graph with "Hours Studied" on the x-axis and "Test Score" on the y-axis.

Description: The scatter plot shows a positive linear relationship between the number of hours studied and the test scores. As the number of hours studied increases, the test scores also increase.

Scatter Plot: Plot the points (1, 220), (2, 210), (3, 200), (4, 195), (5, 190), (6, 185), and (7, 180) on a graph with "Hours Exercised" on the x-axis and "Cholesterol Level (mg/dL)" on the y-axis.

Description: The scatter plot shows a negative linear relationship between the number of hours exercised and the cholesterol levels. As the number of hours exercised increases, the cholesterol levels decrease.