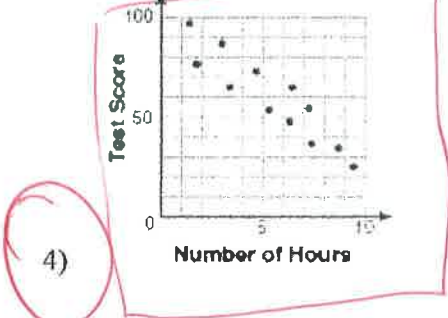
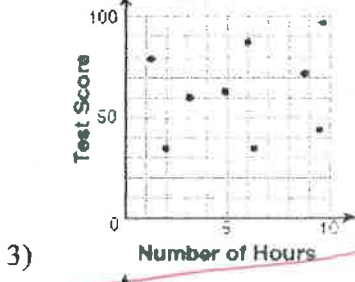
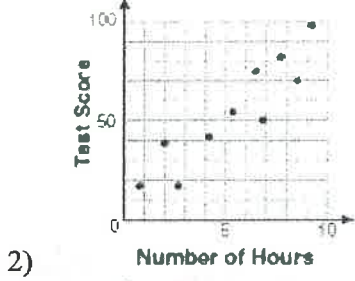
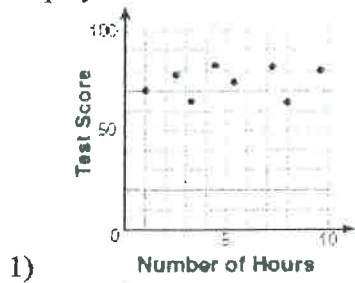


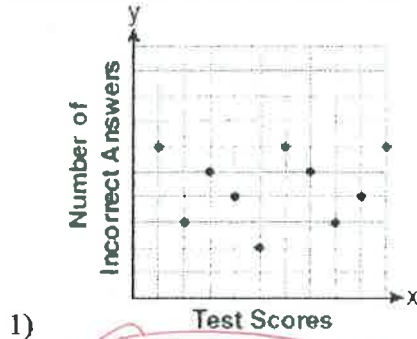
Scatter Plots: Identify the relationship between the independent and dependent variables from a scatter plot and explain why you said that.

1 There is a negative correlation between the number of hours a student watches television and his or her social studies test score. Which scatter plot below displays this correlation?

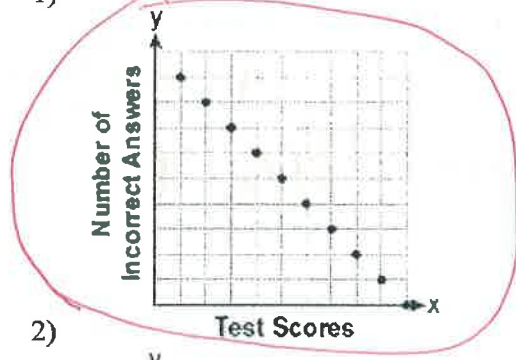


As hrs ↑, score ↓

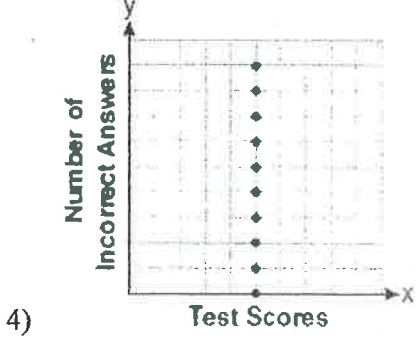
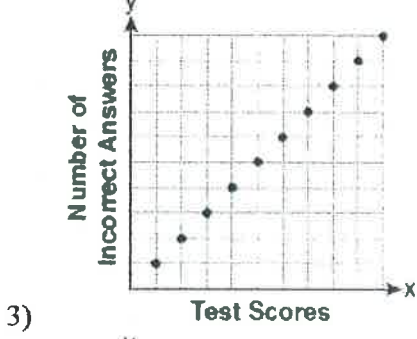
2 Which scatter plot shows the relationship between x and y if x represents a student score on a test and y represents the number of incorrect answers a student received on the same test?



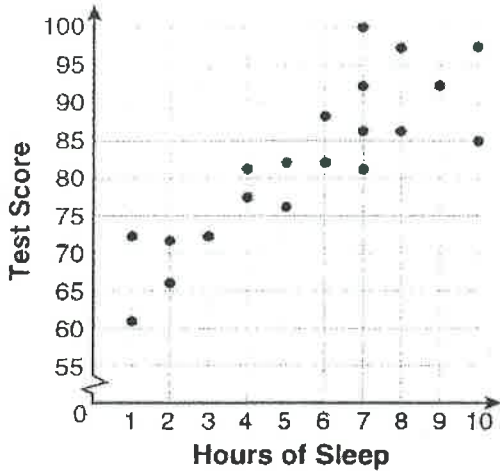
Score ↑
incorrect ↓



Negative association

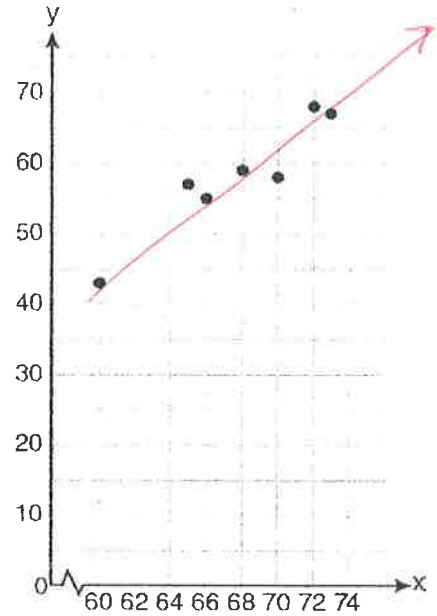


3 What is the relationship between the independent and dependent variables in the scatter plot shown below?



The relationship is : *positive association*
linear, ~~very~~ strong

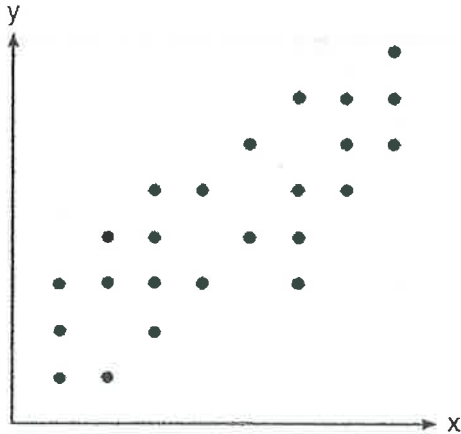
5 A set of data is graphed on the scatter plot below.



This scatter plot shows :

A positive association
Linear
Strong

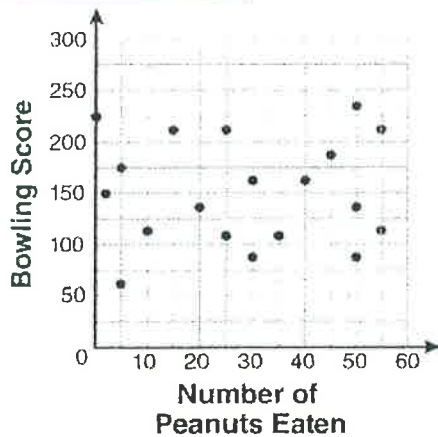
4 The scatter plot shown below represents a relationship between x and y .



This type of relationship is ;

positive
linear
strong

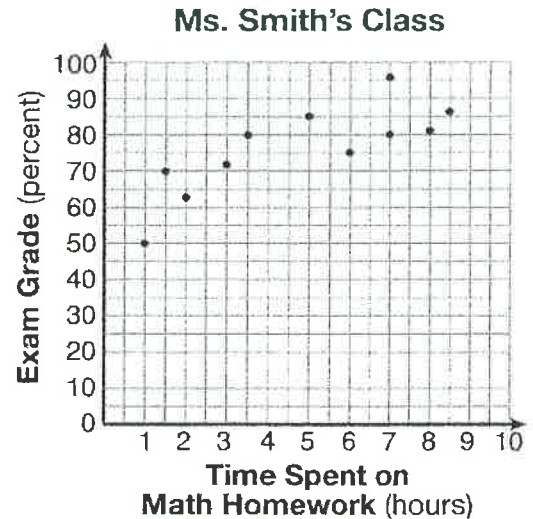
- 6 The scatter plot below represents the relationship between the number of peanuts a student eats and the student's bowling score.



Which conclusion about the scatter plot is valid?

- 1) There is almost no relationship between eating peanuts and bowling score.
- 2) Students who eat more peanuts have higher bowling scores.
- 3) Students who eat more peanuts have lower bowling scores.
- 4) No bowlers eat peanuts.

- 7 The number of hours spent on math homework during one week and the math exam grades for eleven students in Ms. Smith's algebra class are plotted below.



Based on the plotted data, what is the correlation between the time spent on homework and the exam grade?

Positive, linear, fairly strong
The more time spent on HW, the higher the grade

- 8 Which situation describes a negative correlation?
- 1) the amount of gas left in a car's tank and the amount of gas used from it
 - 2) the number of gallons of gas purchased and the amount paid for the gas
 - 3) the size of a car's gas tank and the number of gallons it holds
 - 4) the number of miles driven and the amount of gas used
- 9 A positive correlation always exists on a scatter plot when
- 1) y remains unchanged as x increases
 - 2) y changes randomly as x increases
 - 3) y decreases as x increases
 - 4) y increases as x increases

