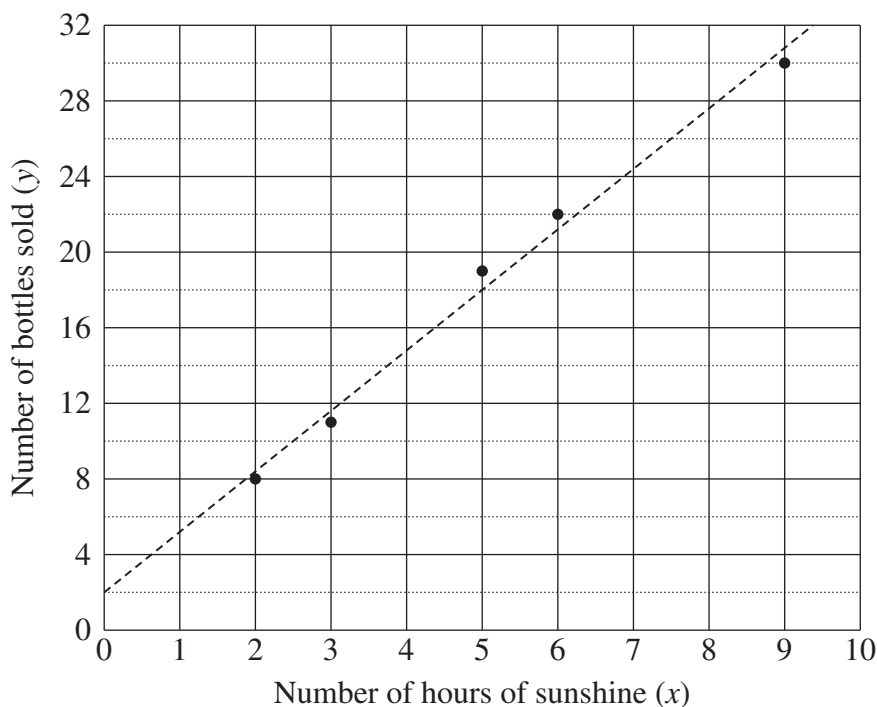


Question 28 (3 marks)

A salesperson is interested in the relationship between the number of bottles of lemonade sold per day and the number of hours of sunshine in the day.

The diagram shows the dataset used in the investigation and the least-squares regression line.



- (a) Find the equation of the least-squares regression line relating to the dataset.

2

.....

.....

.....

- (b) Suppose a sixth data point was collected on a day which had 10 hours of sunshine. On that day 45 bottles of lemonade were sold.

1

What would happen to the gradient found in part (a)?

.....

.....