

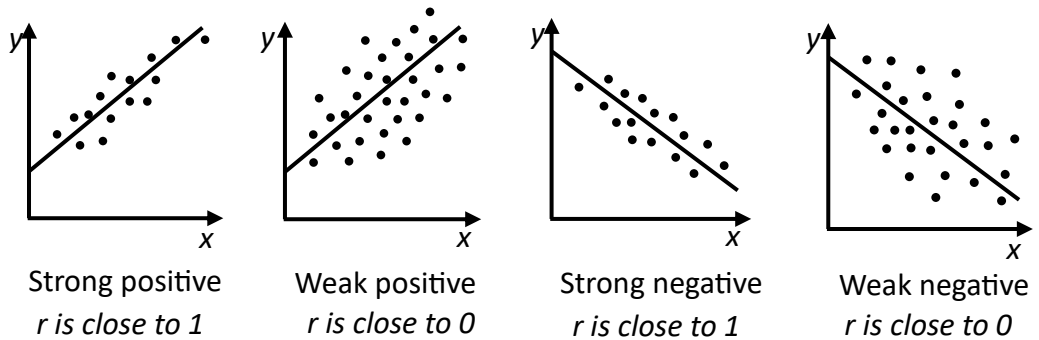
STATISTICS EXAMPLE 4

The coefficient of correlation between a factor x and a result y is $r = -0,3$. Which of the following is implied?

- (A) an increase in x sometimes produces an increase in y .
- (B) an increase in x consistently produces an increase in y .
- (C) an increase in x sometimes produces a decrease in y .
- (D) an increase in x consistently produces a decrease in y .

SOLUTION

The coefficient of correlation, r , is a measure of the linear relationship between two variables.



We have a coefficient of correlation, $r = -0,3$.

This indicates weak, negative correlation.

As x increases, y tends to decrease.

So, the correct answer is C.