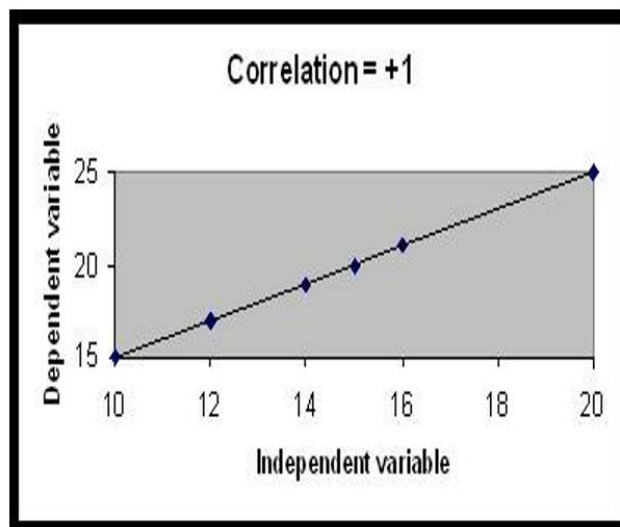


Types of Correlation

- A positive linear relationship exists when both variables increase and decrease at the same time. (for example, weight and height).
- A negative linear relationship exists when one variable increases and the other variable decreases or vice versa. (for example, strength and age).

Positive Correlation Coefficient

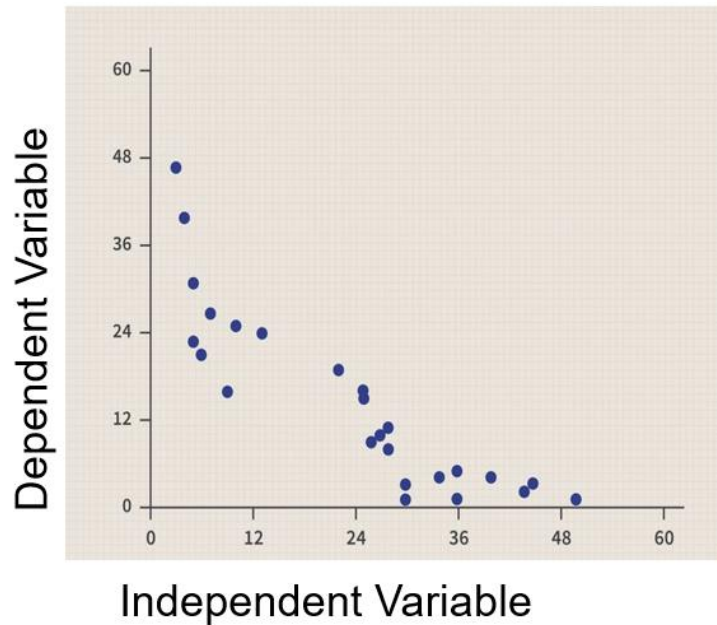
- In the case of an exact positive linear relationship, the value of r is $+1$.
- In the case of a strong positive linear relationship, the value of r will be close to $+1$.





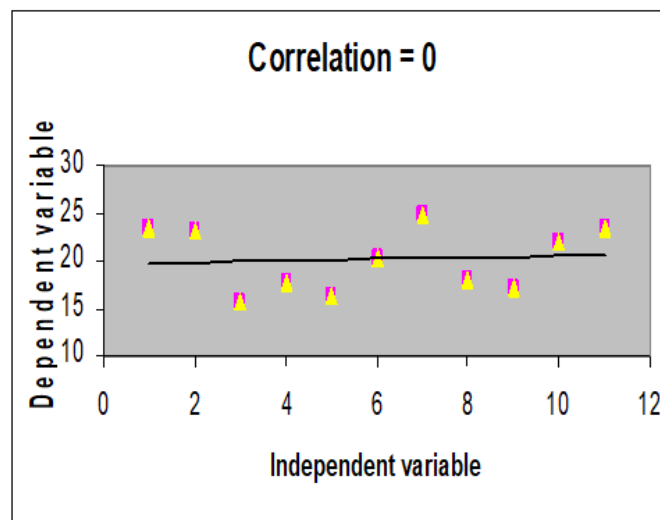
Negative Correlation Coefficient

- In the case of an exact negative linear relationship, the value of r is -1 .
- In the case of a strong negative linear relationship, the value of r will be close to -1 .



Poor Correlation Coefficient

- In the case of a weak relationship, the value of r will be close to 0.





Poor Correlation Coefficient

- In the case of a nonlinear relationship, the value of r will be close to 0.

