

Correlation and Regression Test

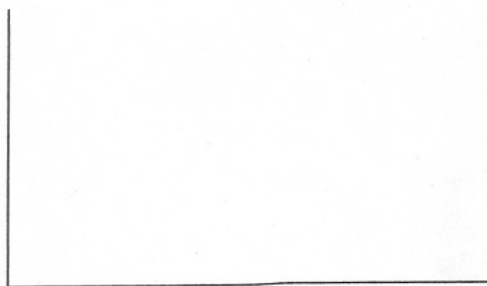
I. Place the number of the appropriate formula, expression, or term next to the appropriate concept.

- A. The independent variable _____
- B. The dependent variable _____
- C. Measures the strength in the relationship between two variables _____
- D. The variation of the dependent variable explained by the independent variable _____
- E. The variation of the dependent variable not explained by the independent variable _____
- F. Used when testing the significance of r _____
- G. The regression equation _____
- H. The slope of the regression line _____
- I. Where a regression line crosses the y-axis _____
- J. The standard error of the estimate _____

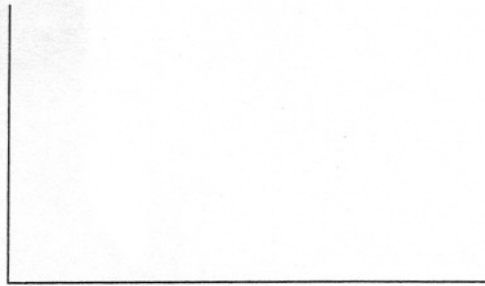
1.	r
2.	b
3.	$1 - r^2$
4.	x
5.	$t = \frac{r-p}{\sqrt{\frac{1-r^2}{n-2}}}$
6.	$\sqrt{\frac{\sum Y^2 - a(\sum Y) - b(\sum XY)}{n-2}}$
7.	y
8.	a
9.	r^2
10.	$\hat{y}_{.x} = a + bx$

II. Draw the following scatters and place an appropriate value for r in the space provided.

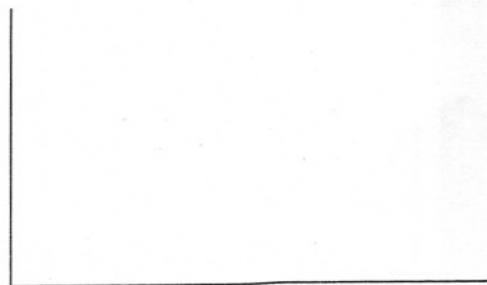
High Positive Correlation $r \approx$ _____



Low Negative Correlation $r \approx$ _____



Zero Correlation $r =$ _____



Perfect Positive Correlation $r =$ _____

