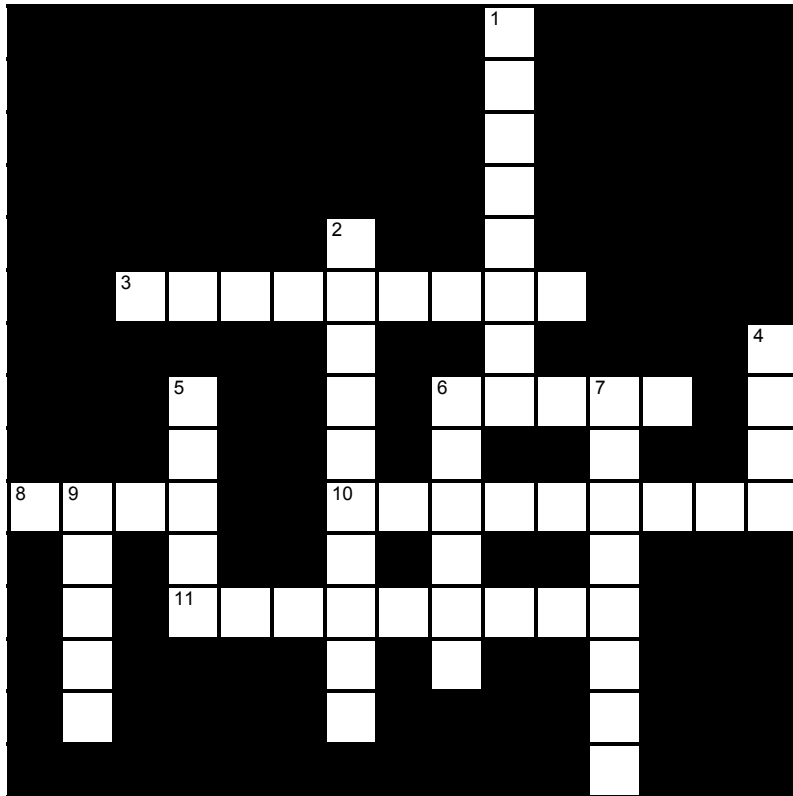


Linear Regression



Across

3 A-sub-y represents the value of the Y axis

_____ (9)

6 The _____-squares regression line minimizes the total error of prediction (the sum of Y minus Y-prime squared). (5)

8 In a perfect linear relationship, the prediction errors equal _____ (4)

10 The values of the slope and the y-intercept in the regression equation

are called regression _____ (9)

11 Y-prime denotes the predicted or _____ value of Y given X. (9)

Down

1 _____ regression is a type of linear regression which uses more than two variables as predictors. (8)

2 In a linear regression, the variable you are _____ is placed on the Y axis. (10)

4 The larger the value of the standard error of the estimate, the _____ certainty we have about the accuracy of prediction. (4)

5 Characterizes the direction and steepness of a regression line. (5)

6 The type of relationship that must exist between the two variables. (6)

7 The _____ error of the estimate when predicting Y given X is used for quantifying prediction errors. (8)

9 The difference between the predicted and the observed values. (5)