1. Select the correct definition of residual:
2. Observed y – predicted y
3. Observed y – observed x
4. Predicted y – observed x
5. None of the above
6. What is the correct R code to build a linear regression model with response variable y and explanatory variable x?
7. lm(y~x)
8. lr(y~x)
9. lm(y=x)
10. lm(x~y)
11. Which of the following is NOT true about the coefficient of determination?
12. It is a measure of how successful the regression equation was in predicting the response variable.
13. The closer it is to zero, the better our equation is at predicting the response variable.
14. It is the squared value of the correlation coefficient.

The regression equation to determine number of units sold (y) for coffee by shelf space (x) is:



A store that has 10 feet of space sold 260 units of coffee. Answer the following question:

1. What is the predicted units sold for x=10?
2. 145
3. 7.4
4. 219
5. 15
6. What is the residual for this store?
7. 145
8. 7.4
9. 41
10. 219