Regression Metrics Quiz

1. Root Mean Square Error is the primary metric reported for linear regression
    a. True
    b. False
2. RMSE value of less than or equal to 0 indicates better predictive accuracy
    a. True
    b. False
3. When you trained a model, you notice that Training RMSE value is 0. Is this good?
    a. Yes
    b. No
    c. Maybe
4. Evaluation RMSE is computed by comparing evaluation set actual value versus model predicted value.
    a. True
    b. False
5. Baseline RMSE is calculated by using mean value of evaluation data
    a. True
    b. False
6. Residual Histogram shows a distribution of difference between predicted and actual values
    a. True
    b. False
7. Residual Histogram should show a balanced distribution centered around 0 with similar number of over and under predictions to be considered normal
    a. True
    b. False

Answers

1. True
2. False - RMSE can never be negative
3. Maybe - Check how the model performs with other data it has not seen before. Sometimes it may run into situation known as overfitting where model memorized training patterns and able to fit training data perfectly but may not be able to generalize to fit newer data.
4. True
5. False - Baseline RMSE is computed using mean value of Training data
6. True
7. True