Underfitting and Normalization Quiz

1. When a model is underfitting,
    a. Training RMSE score is poor
    b. Evaluation RMSE score is poor
    c. Both Training RMSE and Evaluation RMSE scores are poor
2. Feature normalization is needed when there is large magnitude difference between one feature to another feature
    a. True
    b. False
3. Feature A has continuous values ranging from 0 to 10. Feature B has continuous values ranging from 0.005 to 0.008. Default recipe comes up with a quantile binning transformation to convert numeric to categorical value. Is normalization required in this case?
    a. Yes
    b. No
4. If Training Data is normalized, evaluation data and any new data used for prediction must also be normalized
    a. True
    b. False

Answer

1. Both Training RMSE and Evaluation RMSE scores are poor
2. True
3. No - Since data is already converted to categorical, magnitude differences are smoothened out by binning transformation
4. True - When normalization is performed using AWS recipe, AWS automatically takes care of all this for you.