# In-Class (Individual) Assignment 4: Classification Accuracy

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Instructions: Use the provided confusion matrix to answer the following questions.

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| --- | --- | --- |
|  | Predicted Positive | Predicted Negative |
| Actual Positive | 50 | 10 |
| Actual Negative | 5 | 35 |

1. Identify the following from the above table (4pts):

A. True Positives: 50

B. True Negatives: 35

C. False Positives: 5

D. False Negatives: 10

2. Calculate Accuracy (2pts)

A. What is the equation for calculating accuracy?

Accuracy = (True Positives + True Negatives) / (Total Predictions)

B. Calculate the accuracy:

Accuracy = (50 + 35) / (50 + 35 + 5 + 10) = 85 / 100 = 0.85 or 85%