



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Lab 4G: Growing Trees Response Sheet

### Leafier trees

- Mrs. Cumings was a 38 year old female with a 1st class ticket from Cherbourg. Does the model predict that she survived?
  
  
  
  
  
  
  
  
  
  
- Which variable ended up not being used by tree?

### Tree complexity

- How is tree3 different from tree2?

### On your own

- In your own words, explain what the *misclassification rate* is.
  
  
  
  
  
  
  
  
  
  
- Which model (tree1, tree2 or tree3) had the lowest misclassification rate for the `titanic_test` data?
  
  
  
  
  
  
  
  
  
  
- Does creating a more complex *classification tree* always lead to better predictions? Why not?