**2. What percentage of the predictions on sample\_validation\_data did model\_5 get correct?**

25%

50%

**75%**

100%

**3. According to model\_5, which loan is the least likely to be a safe loan?**

First

Second

**Third**

Fourth

**4. What is the** **number of false positives on the validation data?**

1618

**5. Using the same costs of the false positives and false negatives, what is the cost of the mistakes made by the boosted tree model (model\_5) as evaluated on the validation\_set?**

46990000

**6. What grades are the top 5 loans?**

**A**

B

C

D

E

**7. Which model has the best accuracy on the validation\_data?**

model\_10

model\_50

**model\_100**

model\_200

model\_500

**8. Is it always true that the model with the most trees will perform best on the test/validation set?**

Yes, a model with more trees will ALWAYS perform better on the test/validation set.

**No, a model with more trees does not always perform better on the test/validation set.**

**9. Does the training error reduce as the number of trees increases?**

**Yes**

No

**10. Is it always true that the test/validation error will reduce as the number of trees increases?**

Yes, it is ALWAYS true that the test/validation error will reduce as the number of trees increases.

**No, the test/validation error will not necessarily always reduce as the number of trees increases.**