1.	Consider the logistic regression model trained on amazon_baby.sframe using Turi Create. Using accuracy as the evaluation metric, was our logistic regression model better than the majority class classifier?  Yes No	1 point
2.	How many predicted values in the test set are false positives?	1 point
	1443	
3.	Consider the scenario where each false positive costs \$100 and each false negative \$1.  Given the stipulation, what is the cost associated with the logistic regression classifier's performance on the test set?  Between \$0 and \$100,000  Between \$100,000 and \$200,000  Between \$200,000 and \$300,000  Above \$300,000	1 point
4.	Out of all reviews in the test set that are predicted to be positive, what fraction of them are false positives? (Round to the second decimal place e.g. 0.25)  0.04	1 point
5.	Based on what we learned in lecture, if we wanted to reduce this fraction of false positives to be below 3.5%, we would:  Discard a sufficient number of positive predictions  Discard a sufficient number of negative predictions  Increase threshold for predicting the positive class ( $\hat{y} = +1$ )  Decrease threshold for predicting the positive class ( $\hat{y} = +1$ )	1 point

What fraction of the positive reviews in the test\_set were correctly predicted as positive by the classifier? Round your answer to 2 decimal places.

1 point

6.

	0.95	
7.	What is the recall value for a classifier that predicts +1 for all data points in the test_data?	1 point
	1	
8.	What happens to the number of positive predicted reviews as the threshold increased from 0.5 to 0.9?  More reviews are predicted to be positive.  Fewer reviews are predicted to be positive.	1 point
9.	Consider the metrics obtained from setting the threshold to 0.5 and to 0.9.	1 point
	Does the precision increase with a higher threshold?  Yes  No	
10.	Among all the threshold values tried, what is the smallest threshold value that achieves a precision of 96.5% or better? Round your answer to 3 decimal places.	1 point
	0.838	
11.	Using threshold = 0.98, how many false negatives do we get on the test_data? (Hint: You may use the turicreate.evaluation.confusion_matrix function implemented in Turi Create.)	1 point
	5826	
12.	Questions 13 and 14 are concerned with the reviews that contain the word baby.  Among all the threshold values tried, what is the smallest threshold value that achieves a precision of 96.5% or better for the reviews of data in baby_reviews?	1 point

Round your answer to 3 decimal places.

13. Questions 13 and 14 are concerned with the reviews that contain the word baby. Is this threshold value smaller or larger than the threshold used for the entire dataset to achieve the same specified precision of 96.5%?

1 point



Larger



Smaller