

✔ **Congratulations! You passed!**

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1. Fill in the blank: Binomial logistic regression is a technique that models the probability of an observation falling into one of two categories, based on one or more ____ variables. 1 / 1 point

- ☐ categorical
☐ continuous
☒ independent
☐ dependent

✔ Correct

2. What is the logit formula? 1 / 1 point

- ☐ Logarithm of 1 plus p divided by p
☐ Logarithm of p plus 1 divided by p
☒ Logarithm of p divided by 1 minus p
☐ Logarithm of 1 divided by p minus 1

✔ Correct

3. What technique estimates the beta parameters that increase the likelihood of the model producing observed data? 1 / 1 point

- ☐ Accuracy
☒ Maximum likelihood estimation
☐ Recall
☐ Precision

✔ Correct

4. Following the no extreme outliers assumption, when are outliers detected? 1 / 1 point

- ☐ Either before or after the model is fit
☒ After the model is fit
☐ While the model is being fit
☐ Before the model is fit

✔ Correct

5. What graphical representation demonstrates a classifier's accuracy at predicting the labels for a categorical variable? 1 / 1 point

- ☒ Confusion matrix
☐ Logistic matrix
☐ Logistic graph
☐ Likelihood matrix

✔ Correct

6. A data professional calculates precision in logistic regression results. They have 89 true positives, 83 true negatives, 3 false positives, and 1 false negative. What is the calculation for precision? 1 / 1 point

- ☒ $89 / (89 + 3)$
☐ $(83 + 3) / 89$
☐ $(89 + 1) / 3$
☐ $89 / (83 + 1)$

✔ Correct

7. A data professional calculates accuracy in logistic regression results. They have 99 true positives, 91 true negatives, and 248 total predictions. What is the calculation for accuracy? 1 / 1 point

- ☐ $(248 - 99) / 91$
☒ $(99 + 91) / 248$
☐ $99 / (248 - 91)$
☐ $248 / (99 + 91)$

✔ Correct

8. A data professional calculates recall in logistic regression results. They have 99 true positives, 80 true negatives, 7 false positives, and 4 false negatives. What is the calculation for recall? 1 / 1 point

- ☐ $(84 + 4) / 80$
☒ $99 / (99 + 4)$
☐ $80 / (80 + 7)$
☐ $(99 - 7) / (80 - 4)$

✔ Correct