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

- ○ determinant
- ○ implications
- ○ causations
- ◉ probability

✓ Correct

2. A data professional calculates a logarithm of the odds of a given probability. What are they calculating? 1 / 1 point

- ○ Likelihood
- ○ Precision
- ○ Recall
- ◉ Logit

✓ Correct

3. Fill in the blank: Maximum likelihood estimation is a technique for estimating the _____ that maximize the likelihood of the model producing the observed data. 1 / 1 point

- ○ continuous parameters
- ○ beta coefficients
- ○ continuous coefficients
- ◉ beta parameters

✓ Correct

4. For the binomial logistic regression linearity assumption, there should be a linear relationship between each X variable and what logit probability? 1 / 1 point

- ○ Y equals 0
- ◉ Y equals 1

- X equals Y
- X equals 1

Correct

5. Fill in the blank: A confusion matrix is a graphical representation of how accurate a classifier is at predicting the labels for a _____ variable. 1 / 1 point

- correlated
- confidence
- continuous
- categorical

Correct

6. A data professional calculates precision in logistic regression results. They have 116 true positives, 91 true negatives, 3 false positives, and 2 false negatives. What is the calculation for precision? 1 / 1 point

- (91 + 3) / 116
- 116 / (116 + 3)
- 116 / (3 + 2)
- 91 / (116 + 3)

Correct

7. A data professional calculates accuracy in logistic regression results. They have 87 true positives, 94 true negatives, and 222 total predictions. What is the calculation for accuracy? 1 / 1 point

- 87 / (222 - 94)
- (222 - 87) / 94
- 222 / (87 + 94)
- (87 + 94) / 222

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

- (●) 99 / (99 + 4)
- ( ) (99 - 7) / (80 - 4)
- ( ) (84 + 4) / 80
- ( ) 80 / (80 + 7)

Correct