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## Assignment: Disney Regression Practice

### Data Set: Movie Data For Regression

When reporting answers to Blackboard, set decimal places to 3 for answering the first part of the question, e.g., 1a, 2a, etc, e.g., 125.382. Questions 1b, 2b, etc. are answered True or False. Questions 1c etc. should be answered as a percentage, e.g., 1 or 9 or 25.

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1. Run a regression where you predict domestic (USA) ticket sales in millions of dollars using the MPAA rating of a movie.

- a) \_\_\_\_\_ What are expected sales if the movies has a PG-13 (3) rating?
- b) True/False The rating is a reliable predictor of sales?
- c) \_\_\_\_\_% What proportion of the variance does the model predict?

Alpha: .05

2. Run a regression in which you use Japanese screen test rating as a predictor of foreign boxoffice results.

- a) \_\_\_\_\_ What are expected sales if the screen test rating is 5?
- b) True/False The rating is a reliable predictor of sales.
- c) \_\_\_\_\_% What proportion of the variance does the model predict?

Alpha: .05

3. Run a regression in which total boxoffice (worldwide sales) is the predicted variable and marketing expenses are the independent variable.

- a) \_\_\_\_\_ What is the expected boxoffice sales if the marketing budget is \$20 million (20)?
- b) True/False The marketing budget is a reliable predictor of boxoffice sales.
- c) \_\_\_\_\_% What proportion of the variance does the model predict?

Alpha: .05

4. Run a regression in which you predict what Japanese screen test ratings will be from American screen test ratings.

- a) \_\_\_\_\_ What is the expected Japanese rating when the American rating is 5?
- b) True/False The American rating is a reliable predictor of the Japanese screen test rating.
- c) \_\_\_\_\_% What proportion of the variance does the model predict?

Alpha: 0.1