The OLS Regression table on the following page presents four separate models (each one capturing a different law school GPA). Answer the following questions:

1. What is the Dependent Variable?
2. What is/are the Independent Variable(s)?
3. Which variables are statistically significant?
4. Interpret the coefficients for the statistically significant variables.
5. How many observations are included in each model?
6. Which model performed the best?
7. For each statistically significant variable, make an argument whether the variable is substantively significant.

Necessary Background/information

* Bar Exam total possible score: 400
* Threshold for passing the bar exam: 266

|  |  |
| --- | --- |
| **Variable(s)** | **Explanation** |
| Asian, Black, Hispanic, Other | Comparison to the holdout group (White) |
| Male | Comparison to holdout group (Female) |
| LSAT Score | A one-unit increase equal 1 point on the LSAT exam |
| Undergraduate GPA, First-Semester GPA, First-Year GPA, Final GPA, Doctrinal Bar Course GPA | A one-unit increase equals a full GPA increase (3.00-4.00) |
| Credit Hours: Doctrinal Bar | Number of credit hours in courses that are likely to be tested on the bar exam |
| Credit Hours: Skill | Number of credit hours in skills based courses |

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| **Table 1: Examination of Bar Scores by Different Law School GPAs** | | | | |
|  | **First-Semester GPA** | **First-Year GPA** | **Final GPA** | **Doctrinal Bar GPA** |
| **Variable** | **Coefficient** | **Coefficient** | **Coefficient** | **Coefficient** |
| **(P-Value)** | **(P-Value)** | **(P-Value)** | **(P-Value)** |
| Asian | 8.28 | 6.267 | 6.122 | 4.046 |
| (0.138) | (0.251) | (0.183) | (0.395) |
| Black | -0.958 | -1.573 | 6.926 | 2.846 |
| (0.880) | (0.800) | (0.185) | (0.596) |
| Hispanic | 3.686 | 2.868 | 2.022 | 2.104 |
| (0.395) | (0.499) | (0.587) | (0.587) |
| Other | -19.903\* | -18.952\* | -10.47\* | -13.005\* |
| (0.001) | (0.0002) | (0.021) | (0.006) |
| Male | 3.434 | 3.997 | 4.273\* | 2.707 |
| (0.240) | (0.164) | (0.085) | (0.292) |
| LSAT Score | 1.425\* | 1.267\* | 1.159\* | 1.101\* |
| (0.001) | (0.001) | (0.001) | (0.001) |
| Undergraduate GPA | 2.38 | 1.808 | -1.004 | 2.248 |
| (0.558) | (0.651) | (0.761) | (0.506) |
| First-Semester GPA | 26.622\* |  |  |  |
| (0.001) |  |  |  |
| First-Year GPA |  | 33.702\* |  |  |
|  | (0.001) |  |  |
| Final GPA |  |  | 53.692\* |  |
|  |  | (0.001) |  |
| Doctrinal Bar GPA |  |  |  | 40.836\* |
|  |  |  | (0.001) |
| Credit Hours: Doctrinal Bar | -0.123 | -0.153 | 0.179 | -0.017 |
| (0.769) | (0.709) | (0.404) | (0.940) |
| Credit Hours: Skill | 0.075 | 0.851 | 1.51\* | 1.444\* |
| (0.911) | (0.231) | (0.015) | (0.028) |
| Intercept | -17.211 | -12.725 | -72.596 | -17.456 |
| (0.791) | (0.842) | (0.124) | (0.722) |
| Observations | 174 | 174 | 185 | 185 |
| R2 | 0.484 | 0.503 | 0.616 | 0.585 |
| Adjusted R2 | 0.452 | 0.473 | 0.594 | 0.561 |
| \* indicates statistical significance | | | | |