**Quiz Summary**

Generated: 10:42pm

|  | | | | |
| --- | --- | --- | --- | --- |
| Average Score | High Score | Low Score | Standard Deviation | Average Time |
| **91%** | 100% | 50% | 0.62 | 1 hour and 7 minutes*.*01:07:92 |

**Question Breakdown**

Question 1

Attempts: 39 out of 39

In the first model, lm.1, we find that the VIF for X2 is 20.18 and the VIF for X4 is 16.06.

**True or False:** This means that X2 and X4 are collinear.

**+0.79**

Discrimination Index

Discrimination Index: 0.79.

| A table of answers and brief statistics regarding student answer choices. | | | |
| --- | --- | --- | --- |
| **Answer Text** | **Number of Respondents** | **Percent of respondents selecting this answer** | **Answer Distribution** |
| True, (Incorrect answer)True | 6 respondents | 15 % |  |
| **False, (Correct answer)False** | 33 respondents | **85 %** |  |

85% answered correctly

Question 2

Attempts: 39 out of 39

Again referring to lm.1...

**True or False:**There might be no linear relationship between X1 and X3, even though the VIF for X2 is 20.18 and the VIF for X4 is 16.06.

**+0.43**

Discrimination Index

Discrimination Index: 0.43.

| A table of answers and brief statistics regarding student answer choices. | | | |
| --- | --- | --- | --- |
| **Answer Text** | **Number of Respondents** | **Percent of respondents selecting this answer** | **Answer Distribution** |
| **True, (Correct answer)True** | 38 respondents | **97 %** |  |
| False, (Incorrect answer)False | 1 respondent | 3 % |  |

97% answered correctly

Question 3

Attempts: 39 out of 39

Note that in lm.1, *only two predictors* have coefficients significantly different from zero: X2 and X3.  The coefficient for X4 is just at the borderline of significance, and the coefficient for X1 is not significantly different from zero at all.

On the other hand, in the model lm.2, *all three predictors* X1, X3 and X4 have coefficients significantly different from zero.

**True or False:** Since all the predictors in lm.2 are significant, and only two of the four predictors in lm.1 are significant,  lm.2 is a better model than lm.1.

**+0.52**

Discrimination Index

Discrimination Index: 0.52.

| A table of answers and brief statistics regarding student answer choices. | | | |
| --- | --- | --- | --- |
| **Answer Text** | **Number of Respondents** | **Percent of respondents selecting this answer** | **Answer Distribution** |
| True, (Incorrect answer)True | 5 respondents | 13 % |  |
| **False, (Correct answer)False** | 34 respondents | **87 %** |  |

87% answered correctly

Question 4

Attempts: 39 out of 39

Comparing models lm.1 and lm.2...

**True or False:** X2 and X1 appear to be collinear.

**+0.43**

Discrimination Index

Discrimination Index: 0.43.

| A table of answers and brief statistics regarding student answer choices. | | | |
| --- | --- | --- | --- |
| **Answer Text** | **Number of Respondents** | **Percent of respondents selecting this answer** | **Answer Distribution** |
| **True, (Correct answer)True** | 37 respondents | **95 %** |  |
| False, (Incorrect answer)False | 2 respondents | 5 % |  |

95% answered correctly