

RStudio lab assignment: linear regression basics

Assignment instructions

The following are the variables to use in this assignment. You will use the information below the model in the final question (interpretation).

Variable name	Variable label	Variable type	Question wording and response categories
prestg10	Respondents' occupational prestige score	Continuous	Respondent's occupational prestige score (calculated) (Min: 16, Max: 80)
age	Respondents' age	Continuous	What is your age? (Min: 18, Max: 89)
educ	Respondents' education in years	Continuous	What is the highest year of school you completed? (Min: 0, Max: 20)
maeduc	Respondents' mothers' education in years	Continuous	What is the highest year of school your mother completed? (Min: 0, Max: 20)
paeduc	Respondents' fathers' education in years	Continuous	What is the highest year of school your father completed? (Min: 0, Max: 20)

1) Run a linear regression model (model 1) using:

- Outcome variable: **prestg10**
- Factor variable 1: **age**

Code (-5):	
Table (5 points):	

2) Run a linear regression model (model 2) using:

- Outcome variable: **prestg10**
- Factor variable 1: **age**
- Factor variable 2: **educ**

Code (-5):	
Table (5 points):	

3) Run a linear regression model (model 3) using:

- Outcome variable: **prestg10**
- Factor variable 1: **age**
- Factor variable 2: **educ**
- Factor variable 3: **maeduc**

Code (-5):	
Table (5 points):	

4) Run a linear regression model (model 4) using:

- Outcome variable: **prestg10**
- Factor variable 1: **age**
- Factor variable 2: **educ**
- Factor variable 3: **maeduc**
- Factor variable 4: **paeduc**

Code (-5):	
Table (20 points):	

Interpretation (50 points):

First paragraph:

Second paragraph:

Third paragraph:

Fourth paragraph: