

Course > Week... > Probl... > Ques...

Question 1 Question 1

How has mobile phone usage in Brazil changed since 1995?

- 1. Create a subset of the world bank data that contains records from Brazil 1995 and later.
- 2. Change the year variable to be "years since 1995" and update the units of the "mobile.users" variable to millions of users.
- 3. Use this data to answer the following questions.

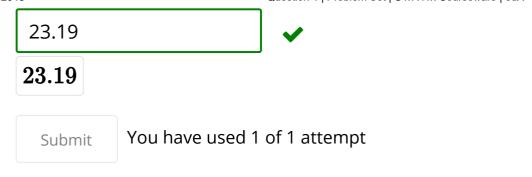
Use the "WorldBankData.csv" dataset to answer the following questions.

Instructions for installing "WorldRecords.csv" can be found under the **Examine**the Data unit in this week's **Pre-Lab** section.

problem

1/1 point (graded)

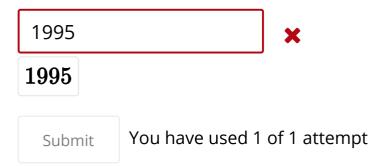
1a. Use RStudio to find the number of mobile users in Brazil (in millions) in 2000. (Round to 2 decimal places.)



problem

0/1 point (graded)

1b. In what year did Brazil first record **more than** 100 million mobile users?



problem

0 points possible (ungraded)

1c. Generate a scatterplot and fit a linear, exponential and logistic model to the data. Which model best describes the increase in mobile users in Brazil since 1995?

Exponential Model
 Linear Model
 Logistic Growth Model ✓

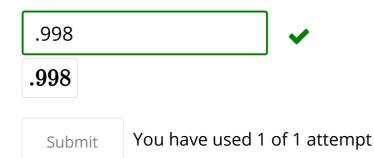
Submit

You have used 1 of 1 attempt

problem

1/1 point (graded)

1d. What proportion of the variation in mobile users is explained by years since 1995 in the best-fitting model? (Round to 3 decimal places.)



problem

0/1 point (graded)

1e. Using the best-fitting model, predict the number of mobile users (in millions) in Brazil in 2025. (Round to a whole number.)



Answers are displayed within the problem

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