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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.

(1 point possible)

1a. Find the number of mobile users in Brazil (in millions) in 2000, using R. (Round to 2 decimal places.)

20.88

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Hide Answer

You have used 1 of 1 submissions

(1/1 point)

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

2007

2007

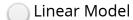
Answer: 2007

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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?









You have used 1 of 2 submissions **Final Check Hide Answer** Save (1/1 point) 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.) 0.998 0.998**Answer:** .998 You have used 1 of 1 submissions **Hide Answer** (1 point possible) 1e. Using the best-fitting model, predict the number of mobile users (in millions) in Brazil in 2025. (Round to zero decimal places.) 348 348

Answer: 345

You have used 1 of 1 submissions

Hide Answer

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