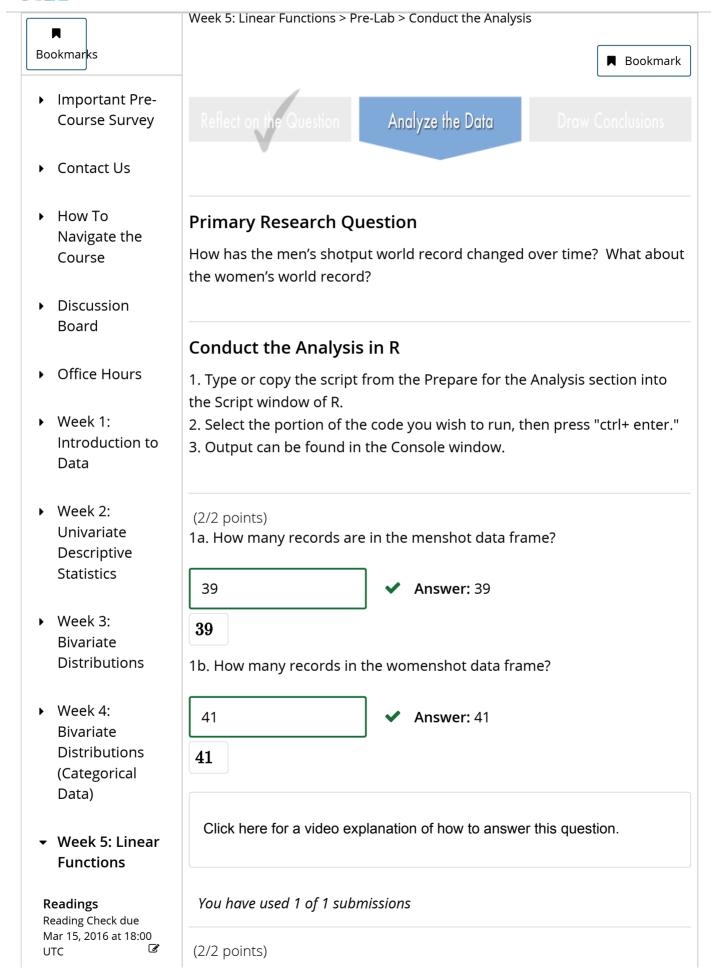


## UTAustinX: UT.7.10x Foundations of Data Analysis - Part 1



## **Lecture Videos**

Comprehension Check due Mar 15, 2016 at 18:00 UTC

### **R Tutorial Videos**

#### Pre-Lab

Pre-Lab due Mar 15, 2016 at 18:00 UTC

#### Lab

Lab due Mar 15, 2016 at 18:00 UTC

## **Problem Set**

Problem Set due Mar 15, 2016 at 18:00 UT As you look at the scatterplot:

2a. Is a linear model appropriate for the men's shotput data?

2b. Is a linear model appropriate for the women's shotput data?

Yes • Answer: Yes

Click here for a video explanation of how to answer this question.

# You have used 1 of 1 submissions

(3/3 points)

What is the equation for the linear model that predicts the World Record shotput distance for men?

3a. record distance = \_\_\_\_\_ + (\_\_\_\_\_ \* year)

-243.3 **Answer:** -243.3

0.134 ▼ **✓ Answer:** 0.134

3b. What is the value of  $R^2$ ?

0.941 **▼ ✓ Answer:** 0.941

Click here for a video explanation of how to answer this question.

You have used 1 of 1 submissions

(3/3 points)

What is the equation for the linear model that predicts the World Record shotput distance for women?

4a. record distance = \_\_\_\_\_ + ( \_\_\_\_\_ \* year)

-440.3 ▼ **Answer:** -440.3

| 0.234 ▼  |
|--|
| 4b. What is the value of $R^2$ ?  O.962 • Answer: 0.962                                      |
|  |
| Click here for a video explanation of how to answer this question.                           |
| You have used 1 of 1 submissions   |
| <ul><li>(1/1 point)</li><li>5. What can we say about the models for men and women?</li></ul> |
| There is no difference in the rate of change for men and women.                              |
| The rate of change is greater for men than for women.  |
| ● The rate of change is greater for women than for men. ✔                                    |
| The two models cannot be compared because they are different events.                         |
|  |
| Click here for a video explanation of how to answer this question.                           |
| You have used 1 of 1 submissions   |

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