Primary Research Question

How has the men's shotput world record changed over time? What about the women's world record?

Conduct the Analysis in R

1. Type or copy the script from the the Prepare for the Analysis section into the Script window of R.
2. Select the portion of the code you wish to run, then press "ctrl+ enter."
3. Output can be found in the Console window.

(2/2 points)

1)How many records are in the *menshots* data frame?

39

39

Answer: 39

Help

2) How many records in the *womenshot* data frame?

41

41

Answer: 41

Final Check | Save | Hide Answer *You have used 1 of 2 submissions*

(2/2 points)

As you look at the scatterplot:

3a) Is a linear model appropriate for the men's shotput data?

Yes Yes

3b) Is a linear model appropriate for the women's shotput data?

Yes Yes

Final Check | Save | Hide Answer *You have used 1 of 2 submissions*

(3/3 points)

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

Help

4a) record distance = _____ * year + _____

0.234 0.234

-440.3 -440.3

4b) What is the value of R^2?

0.962 0.962

Final Check | Save | Hide Answer *You have used 1 of 2 submissions*

(1/1 point)

5) What can we say about the models for men and women?

- 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.

Help

THAT'S CORRECT. THE WOMENS' RATE OF INCREASE IF IN DISTANCE IS .100 MORE THAN THAT OF MEN.

Final Check | Save | Hide Answer | *You have used 1 of 2 submissions*

founding partners Harvard and MIT.

Terms of Service and Honor Code

Privacy Policy (Revised 4/16/2014)

Help

edX Blog

Donate to edX

Jobs at edX

LinkedIn

Google+