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Reflect on the Question

Analyze the Data

Draw Conclusions

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?

Answer: 392) How many records in the *womenshot* data frame?**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

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

☒ 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?

4a) record distance = _____ * year + _____

 0.234 -440.34b) What is the value of R^2 ? 0.962

Help

Final Check

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Hide Answer

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(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.

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




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