

Week 8 — Simple regression: Monday exit ticket

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Name: _____

Date: _____

Instructions

Work through each item below. Write your final response in the space provided. Show enough work that another reader can follow your reasoning.

1. Using the PREVEND study (500 adults aged 36–81 in the Netherlands; observational data), researchers fit a line predicting the Ruff Figural Fluency Test (RFFT) score from age:

$$\widehat{\text{RFFT}} = 137.55 - 1.26 \times \text{age}.$$

- (a) Interpret the **slope** -1.26 in one sentence, in the units of the data, using *on average*.
- (b) Should we conclude from this fitted line that *aging causes* lower RFFT scores? One sentence, with the reason.