

1. Understand the connection between SSE and R^2 as measurements of the fit of a model
 2. Build an optimal linear model using Excel trendline
 3. Use a linear model to make a prediction and interpret the results in the context of a real world scenario
 4. Think through ethical considerations for using a linear model to make predictions
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Exercise:

The AFT recently removed the Standing Power Throw as a measure of Soldier fitness. While the primary listed reason was that it rewarded technique instead of measuring strength and power, there is also a claim that the *size* of the Soldier makes a difference too. You've been asked by leadership to determine which metric, height or weight of a soldier, more strongly influences the distance a Soldier can throw the medicine ball. You have been provided data from an ACFT conducted by Soldiers in an Infantry Battalion deployed to Kuwait. Use Excel and the modeling process (Transform, Solve, Interpret) to justify your recommendation. Show all work and clearly communicate your decision.