

HW 5 Solutions

Stats and sports class

Part I

2. The pass to Kittle was complete. How many completions over expected was this pass worth?

SOLUTION: Pass to Kittle is worth +0.28 completions over expected (1-0.72)

6. Identify the quarterbacks doing the best and worst at the most difficult passes

SOLUTION: On most difficult passes, J. Driskel, T Taylor, J Flacco, tend to be doing the worst. Russel Wilson and Deshaun Watson the best

9. Which quarterback is *most* outperforming expectations? Why?

SOLUTION: Either Gardner Minshew or Russell Wilson have the highest residuals

12. Justin Tucker is listed as having 3.9 field goals over expected. How many additional points has that been worth?

SOLUTION: $3.9 \times 3 = 11.7$ points over expected

13. A skeptic notes that evaluating field goal kickers on their field goal kicks alone may miss the value that they provide (even ignoring other plays in the game). What's the additional benefit of having a top-notch field goal kicker that isn't considered when only looking at their observed kicks?

SOLUTION: Good kickers also get more opportunities to impact a game (e.g, they get to attempt more and longer kicks)