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Notes on Regression

① Explanatory: Run difference, x

Response: win, y

② $y = 0.1045x + 80.904$

③ $R^2 = 0.9378$ ~~0.9378~~, strong positive relationship.

④ positive relationship, because the slope is positive.

m, slope = 0.1045.

⑤ $R^2 = 0.8796$.

⑥ 87% of the variation in the ~~population~~ outputs is explained by the linear relationship between the variables.

⑦ $95 = 0.1045x + 80.904$

$$x = \frac{14.096}{0.1045} = 134.889 = 135$$