

## Should NFL Quarterbacks Shave or Grow a Beard?

Should NFL quarterbacks play with facial hair or not? The table below gives a sample of data comparing quarterback performance with and without facial hair. Using the sample of data and math decide if NFL quarterbacks should play with or without facial hair. Note: QBR stands for quarterback rating, a statistic that measures and communicates overall quarterback performance, the higher the QBR the better the overall performance.

Quarterback	QBR Facial Hair	QBR Clean Shave
Aaron Rodgers	109.6	93.58
Jay Cutler	88.31	81.98
Tom Brady	89.43	83.86
Ben Roethlisberger	94.25	80.63
Andrew Luck	88.06	73

### Extension Questions:

1. How could you gather your own sample of data to show that quarterback facial hair is associated with either a greater or weaker performance?
2. Do you think the relationship between facial hair and QBR is one of causation (for example does facial hair or lack of facial hair cause increased performance) or correlation (there is a relationship between variables, but one does not cause the other)?
3. How might you represent this data with a graph or plot?