

Top 20 PGA Golfers and Their Average Driver Ball Speeds

By: Jack Simasko

Top 20 PGA Golfers in the World					
Rank	Player Name	Average Driver Ball Speed in Mph	Rank	Player Name	Average Driver Ball Speed in Mph
1.	Scottie Scheffler	183	11.	Collin Morikawa	172
2.	Rory McIlroy	187	12.	Victor Hovland	180
3.	Cameron Young	184	13.	Si Woo Kim	178
4.	Matt Fitzpatrick	178	14.	Jon Rahm	181
5.	Wyndham Clark	185	15.	Justin Rose	175
6.	Russell Henley	178	16.	Ludvig Aberg	184
7.	Chris Gotterup	185	17.	J.J. Spaun	176
8.	Tommy Fleetwood	176	18.	Robert Macintyre	176
9.	Sam Burns	180	19.	Aaron Rai	172
10.	Xander Schauffele	179	20.	Alex Noren	174

List of Data and 5 Number Summary

PGA Tour Top 20 Players Average Driver Ball Speeds in Mph

172, 172, 174, 175, 176, 176, 176, 178, 178, 178, 179, 180, 180, 181, 183, 184, 184, 185, 185, 187

Minimum: 172
Q1: 176
Median: 178.5
Q3: 183.5
Maximum: 187



List of Data, Outliers, Mean, and Standard Deviation

PGA Tour Top 20 Players Average Driver Ball Speeds in Mph

172, 172, 174, 175, 176, 176, 176, 178, 178, 178, 179, 180, 180, 181, 183, 184, 184, 185, 185, 187

Q1: 176 Q3: 183.5
IQR: $183.5 - 176 = 7.5$
 $1.5 \times \text{IQR}$

$Q1 - 1.5 \times \text{IQR}$
 $176 - 12 = 164$

$Q3 + 1.5 \times \text{IQR}$
 $183.5 + 12 = 195.5$

These calculations show that there are no outliers present in the data set as the top 20 ball speeds all lie within the $1.5 \times \text{IQR}$ ranges of 164.75 to 194.75 mph.

$(172 + 172 + 173 + \dots + 187) / 20 =$

179.15 mph

Mean: 179.15 mph

Standard Deviation:
4.339

List of Data and Dot Plot

PGA Tour Top 20 Players Average Driver Ball Speeds in Mph

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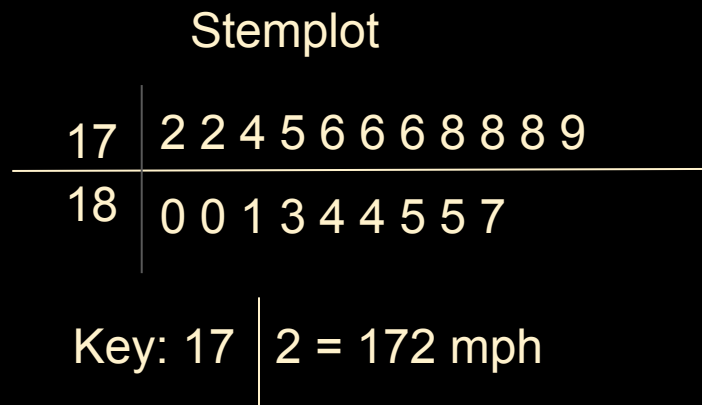
170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190

List of Data and Stemplot

PGA Tour Top 20 Players Average Driver Ball Speeds in Mph

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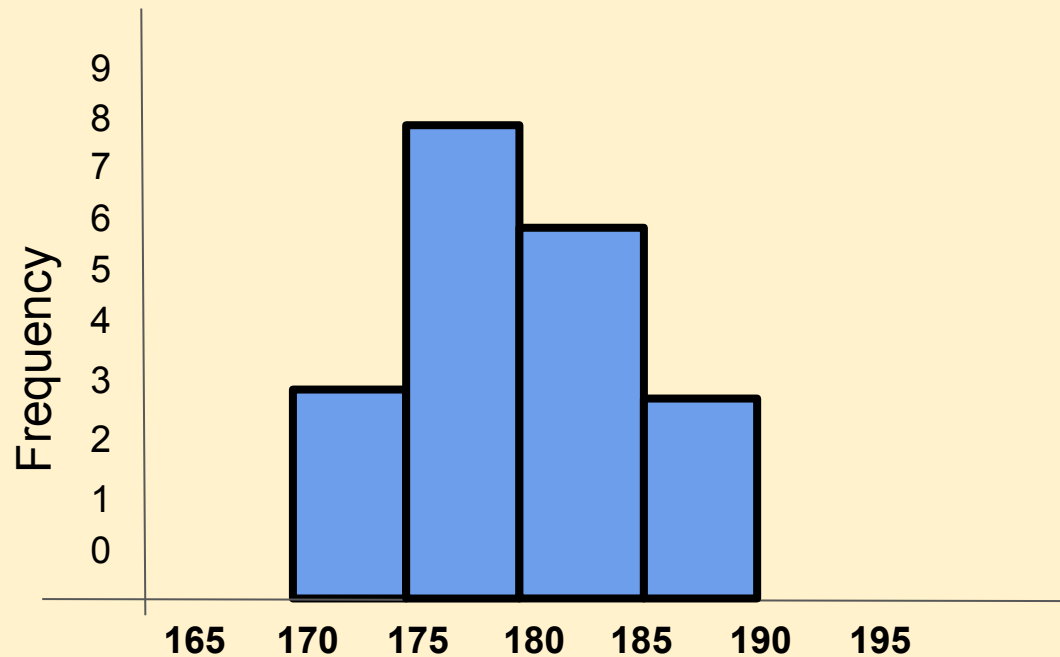


List of Data and Histogram

PGA Tour Top 20 Players Average Driver Ball Speeds in Mph

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List of Data and Box and Whisker Plot

PGA Tour Top 20 Players Average Driver Ball Speeds in Mph

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CSOCS and Data Description

C- The data represents the average driver ball speeds of the top 20 PGA golfers.

S- The data is roughly symmetric since the mean of 179.15 is very close to the median of 178. Since the mean is greater than the median the data is technically slightly skewed to the right.

O- Through the $1.5 \times \text{IQR}$ calculations the ranges spanned from a low of 164.75 mph and a high of 194.75 mph and all data points lie within this range proving that there are no outliers on this data set.

C- The mean of the 20 data points was 179.15 and the median was 178.5 showing that the center of the data is right around the small range of 178-179. Since these values are so close together they both accurately represent the center of the data demonstrating that the data is roughly symmetric and has little to no skew right.

S- The standard deviation of the data was about 4.34 mph meaning that in the top 20 PGA golfers their ball speed typically differed from the mean of 179.15 mph by about 4.34 mph.

Tommy Fleetwood's Driver Ball Speed Percentile and Z-Score Compared to the Top 20 PGA Players

172, 172, 174, 175, 176, 176, 176, 178, 178, 178, 179, 180, 180, 181, 183, 184, 184, 185, 185, 187

Tommy Fleetwood has an average driver ball speed of 176 mph off of the tee.

Percentile: $7/20 = 0.35$ or the 35th percentile. This means that Tommy Fleetwood hits his driver the same speed or faster than 35 percent of the top 20 PGA pros.

Standardized / Z-Score: $(176 - 179.15) / 4.34 = -0.726$

This means that Tommy Fleetwood's driver ball speed is about 0.726 standard deviations below the mean or that Tommy Fleetwood hits his driver about 3.15 mph less than the mean of 179.15 mph.

Learning Targets and Key Takeaways

In this unit I learned about 1 variable quantitative statistical analysis skills and the many different ways to measure center, variability, and shapes of data. Along with this I learned about how this data can be represented in many different charts and graphs and the specific advantages of each. Some of the key vocabulary I learned about consist of the terms: mean, median, mode, range, standard deviation, z-score, quantitative, and qualitative variables. This project mainly focused on a 1 variable analysis that was quantitative but the unit also focused on qualitative data as well.