

Name: _____

Date: _____

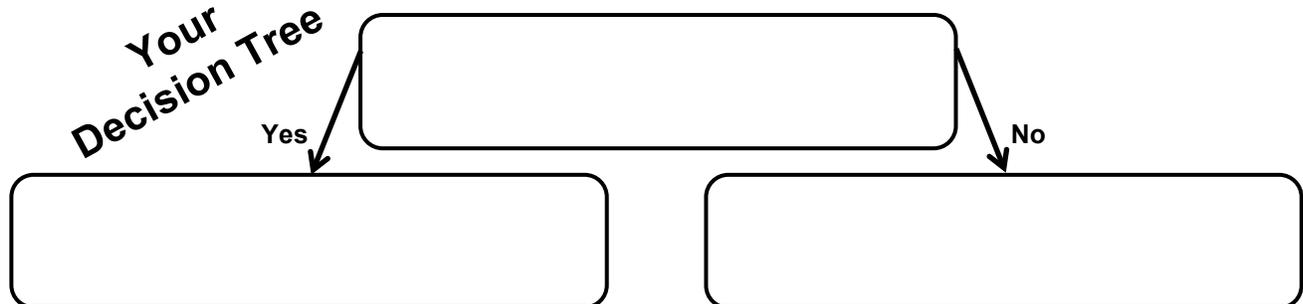
Make Your Own Decision Tree

Directions:

1. Use the **training data** and blank decision tree provided below to create your own classification tree to help separate the NFL players from the USMNT players.
2. Start at the top of the decision tree and write **yes/no questions** in each of the **leaves/boxes**.
3. Continue to draw additional leaves/boxes to either write more questions or to classify a player.
4. Once you have completed your tree, sort the 6 players from the **testing data** (on page 2) using your classifications and record them in the data table. Afterwards, your teacher will reveal who each player actually is, and you can determine how many you classified correctly.

Training Data

| Team | Player | Height (inches) | Weight (pounds) | Age | League |
|----------------|--------------------|-----------------|-----------------|-----|--------|
| Carolina | Cam Newton | 77 | 245 | 26 | NFL |
| Chicago | Sean Johnson | 75 | 217 | 26 | USMNT |
| Dallas | Matt Cassel | 76 | 230 | 33 | NFL |
| Dallas | Tony Romo | 74 | 230 | 35 | NFL |
| Dallas | Matt Hedges | 76 | 190 | 25 | USMNT |
| Kansas City | Alex Smith | 76 | 216 | 31 | NFL |
| Kansas City | Matt Besler | 72 | 170 | 28 | USMNT |
| New England | Tom Brady | 76 | 225 | 38 | NFL |
| New England | Jermaine Jones | 72 | 179 | 34 | USMNT |
| Seattle | Russell Wilson | 71 | 206 | 27 | NFL |
| Seattle | Clint Dempsey | 73 | 170 | 32 | USMNT |
| Toronto | Michael Bradley | 73 | 179 | 28 | USMNT |
| Toronto | Jozy Altidore | 73 | 174 | 26 | USMNT |
| Washington, DC | Robert Griffin III | 74 | 223 | 25 | NFL |
| Washington, DC | Steve Birnbaum | 74 | 181 | 28 | USMNT |



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Testing Data

| Team | Player | Height (inches) | Weight (pounds) | Age | League | Correct? |
|----------------|---------------|------------------------|------------------------|------------|---------------|-----------------|
| Toronto | Player 1 | 74 | 175 | 28 | | |
| New York | Player 2 | 76 | 218 | 34 | | |
| New Orleans | Player 3 | 72 | 209 | 36 | | |
| Washington, DC | Player 4 | 72 | 160 | 23 | | |
| New England | Player 5 | 68 | 150 | 29 | | |