

The Oregon Ducks (2) and the Ohio State Buckeyes (4) played together in the first ever College Football National Championship.



In the first quarter Oregon scored 7 points and Ohio State scored twice that amount.

In the second quarter Oregon scored 3 more points than they did in the first quarter while Ohio State scored the same number of points as Oregon in the first quarter.

In the third quarter, Oregon scored enough points to equal their first two quarters combined. Ohio State scored as many as they did in the second quarter.

In the fourth quarter, Ohio State scored as many points as the second and third quarters combined.

Write an expression to represent the final score for each team in the CFP National Championship. Determine the final score using the expressions for each team.

Ohio State

$$\begin{array}{ccccccc} \text{1st Q} & + & \text{2nd Q} & + & \text{3rd Q} & + & \text{4th Q} \\ (2 \times 7) & + & 7 & + & 7 & + & (7+7) \end{array}$$

<http://gigapixel.panoramas.com/cfp/2015/>

<http://espn.go.com/video/clip?id=12158899>

Oregon

$$\begin{array}{ccccccc} \text{1st Q} & + & \text{2nd Q} & + & \text{3rd Q} & + & \text{4th Q} \\ 7 & + & 3 & + & (7+3) & + & 0 \end{array}$$

6E



The 2015 Fourth of July Nathan's Famous Hot Dog eating contest was *frankly* amazing! Contestants have 10 minutes to eat as many hot dogs as possible!

In the men's competition, the Yasir Salem ate 30 hot dogs. Adrian Morgan ate one more hot dog than Yasir. Erik Denmark ate 2 more than Adrian. Joey Chestnut ate twice the amount that Yasir ate and Matthew Stonie ate two times the amount Adrian was able to eat. Eater X ate half a hot dog less than if Yasir, Adrian, Erik, Joey, and Matt had shared their combined total among all six competitors.

How many hot dogs did each of the top six competitors eat? How many hot dogs did these 6 men eat in all?

$$\begin{array}{l}
 \text{Yasir} + \text{Adrian} + \text{Erik} + \text{Joey} + \text{Matthew} + \text{Eater X} \\
 30 + (30+1) + ((30+1)+2) + (2 \times 30) + [2(30+1)] + \left[ \frac{30 + (30+1) + ((30+1)+2) + (2 \times 30) + [2(30+1)]}{6} - 0.5 \right]
 \end{array}$$

6F