



UNIVERSITY OF WISCONSIN
PLATTEVILLE
DEPARTMENT OF MATHEMATICS

PROBLEM OF THE WEEK #4
(Fall 2022)

In my head-to-head trivia league, each player competes exactly once per season against every other player, earning two points per win plus one point per draw.

Last season we found that in any group of three players, there was someone who scored exactly three points in their matches against the other two.

What is the largest number of players that could have been in my league last season?

[Please fully explain your answer.]

Email solutions to kwonmi@uwplatt.edu by 4:00pm on Wednesday, October 12, 2022.

Every week, the best solution submitted earns a \$10 Platteville gift certificate; the top scorer each semester also wins a cash award. Good luck!

You can always see the Problem of the Week (and complete rules) online at:

<http://uwpmath.weebly.com/>