

Name: _____

Practice on Dominance Matrices

For each of the situations below, create a dominance matrix, then determine the power ranking of each athlete or team to determine the league standings.

1. In various karate matches, four athletes have competed against each other with the following results: Amanda defeated Bill, Bill defeated Chris and Dave, Chris defeated Amanda and Dave, and Dave has defeated Amanda. If they are to be seeded at a tournament according to ability, how should they be arranged?

2. Four little league teams have played each other exactly once throughout a season. The Arrows have beaten the Bullets and the Daggers. The Bullets have beaten the Cimitars and the Daggers. The Cimitars have beaten the Arrows, and the Daggers have beaten the Cimitars. What is their league ranking so far?

3. A small high school football league has, in their short season, had the following results:
Falcons beat Bears, Dragons
Dawgs beat Falcons
Bears beat Dawgs, Dragons, Emus
Dragons beat Dawgs
Emus beat Falcons, Dawgs, Dragons

Find the current rankings for these teams.