MATH 1300, Mathematical Explorations

Nim

Activity

- Have students work through the activities in Ch. 5 of the Games and Puzzles book.

- Class Discussion: What are binary numbers? How can we calculate them? Why are they useful in general? Why are they useful for Nim?

Assignments

1. Have students calculate Nim-sums to determine who will win a few sample games.

2. Challenge: Exercise F1 (Northcott's Game) from chapter 5 of the Games and Puzzles book.

References and resources

Discovering the Art of Mathematics: Games and Puzzles

Follow-on activities

Chomp