
Discrete Mathematics

Graph Theory and Recursion

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CTTI Workshop: UIC

June 1, 2013

These slides are available on my [homepage](#).

What is discrete mathematics anyway?

To name a few topics . . .

- ▶ Combinatorics
- ▶ Logic
- ▶ Probability
- ▶ Statistics
- ▶ Graph Theory
- ▶ Iteration and recursion
- ▶ Game Theory
- ▶ Cryptography

What is discrete mathematics anyway?

The flavor is often . . .

- ▶ Meaningful applications
- ▶ Easy to understand problems
- ▶ Fun and engaging

Workshop 5: June 15

What's Fair?

Math & Social Justice

Explored through Fair Division, Game Theory, and Resource Distribution.

Social studies teachers invited
Please reserve spots early

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Workshop 4: Introduction to Graph Theory

Workshop goals:

- ▶ Coloring Maps and Graphs
- ▶ Coloring Bagels
- ▶ Conflict Resolution

Workshop 4: Recursion and Self-Similarity

Workshop goals:

- ▶ Common Examples
- ▶ 121312141213 . . .
- ▶ Maybe a connection to graph theory

Other Resources:

[Sierpinski Triangle Movie](#)

[Koch Snowflake](#)

[Introduction to Coding](#) contains some activities on ASCII code, base 8 arithmetic, and the 1213 . . . sequence.