

Mrs. Pisani
Room: TH-07

DISCRETE MATHEMATICS

How to contact me:

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What is Discrete Math???

- The study of finite sets
- We study real-life situations
- We deal with the concrete vs. the abstract
- We do "word problems" and enjoy it!



Discrete Math

- Usually taught at the college level
- Focus on applied mathematics and solving real world problems
- Project-based class

Textbook: For All Practical Purposes

Textbook website: www.whfreeman.com/fapp7e

Calculator: graphing calculator is necessary

- Suggested Homework vs. Required Homework

Hamiltonian circuit examples - show projects

Topics we will study by marking period:

Marking period 1:

1.) **Urban services:** Euler circuits - optimizing delivery routes

2.) **Business efficiency:** Hamiltonian circuits, and critical path analysis - optimizing time, cost, and distance in business models

3.) **Linear programming:** maximizing profit and optimal production

Marking Period 2:

Data Distributions & Statistics: Methods of collecting, displaying, and analyzing data, with a focus on unbiased sampling methods and normal distributions.

Identification numbers: Zip and bar codes, UPC, and ISBN #'s - how are they used to organize and optimize POS systems, inventory tracking

Marking Period 3:

Information science: Binary numbers & modular arithmetic - computer science; encoding & cryptography - military applications

Probability: predicting outcomes and managing risk

Marking Period 4:

Growth and Form: Geometric similarity & proportional growth,
dimensional analysis

We will spend the last few weeks preparing for the college math
placement tests!!!

After school math help:

Mondays & Thursdays: 2:45 - 4:00PM

- **No appointment necessary**
- **Do not have to stay the entire time**

AP Calc (AB or BC) tutoring is available!

EMAIL: CoachDanPisani@gmail.com

Mr. Pisani's AP Calc Stats:

★ **63 out of 68 students passed AP Calc AB Exam with an average score of 4.**

★ **Last year, 25 of 31 students scored 4 or higher.**

Individual and group tutoring options are available.