Math 155 - Day #1: Numerals vs. Numbers

How many fingers does Professor Cahill have on his hand?

Tally: ⷌ

Arabic Numerals: 5

Roman Numerals: V

These are all different ways to write it, but all are symbols used to represent the same number.

We can change the numerals without changing my number of fingers

We most often use Arabic numerals

Where do we see Roman numerals?

Ex: Clocks and keeping track of Star Wars movies

As a warm up to using different numerals, let's look at Roman Numerals.

How to represent Arabic numerals as Roman numerals:

1: I	5: V
10: X	50: L
100: C	500: D
1000: M	

Rules for Roman numerals:

If two numerals are ordered higher to lower from left to right then add the numbers

Ex: XI = 11

If two numerals are ordered lower to higher from left to right then subtract the smaller number from the larger

Ex: IX = 9

Never write more than 3 of a number in a row

Ex: 3 = III but 4 = IV

Only subtract 1's from 5's and 10's; 10's from 50's and 100's; and 100's from 500's and 1000's

Ex: 40 = XL

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Examples:

Write the following Roman numerals as Arabic numerals:

XXVI = 26

XCIX = 99

CCXCV = 295

MCMI = 1901

Write the following Arabic numerals as Roman numerals:

7 = VII

14 = XIV

436 = CDXXXVI

2349 = MMCCCXLIX

Write your birthday year in Roman numerals: 1983 = MCMLXXXIII