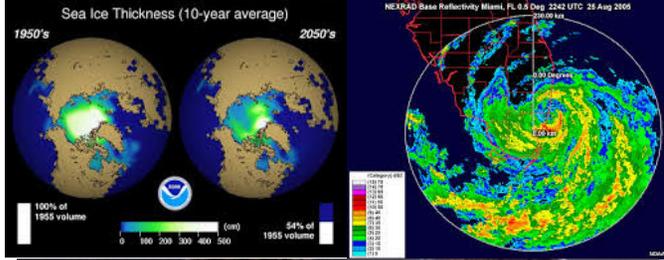


Think outside the box



WHAT THEY TRACK HOW THEY USE IT

### AMAZON

- Customers' past purchases
- Items customers have rated and liked
- Customers' purchases compared to similar purchases by other customers
- Items in customers' virtual shopping carts

To make future product recommendations

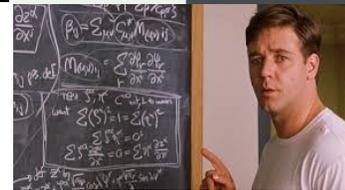
95% of people cannot solve this!

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{6} = 1$$

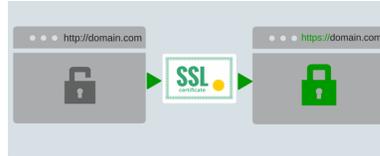
Can you find positive whole values for  $\frac{1}{2}$ ,  $\frac{1}{3}$ , and  $\frac{1}{6}$ ?

### NETFLIX

- Users' ratings on movies and television shows
- To produce additional movie, TV show and genre recommendations



Math Major



WHY WOULD ANYONE WANT TO KEEP STUDYING MATH?



## WHAT IS A MATH MAJOR?

A math major is nothing like secondary-level math. There is much more beyond calculus and trigonometry. It is more than crunching numbers; it is about problem-solving, and finding patterns and answers. This makes it an exciting, interesting, and challenging major. Hard work is more important than talent!

### IF IT IS NOT ABOUT CRUNCHING NUMBERS, WHAT DO MATH MAJORS DO?

A math major can have a variety jobs, here are some:

- Mathematician
- Professor
- Financial/business analyst
- Statistician
- Accountant
- Cryptographer
- Actuary
- Economist
- High school math teacher
- Programmer
- Engineer
- Researcher
- Operations research analyst

### Math as a basis for other career paths

Math is a great major because it develops analytical skills and ability to work in a problem-solving environment. Math is everywhere, offering broad career choices.

Graduate schools in medicine, law, and business think math is a great major. It helps you to be competitive in grad school.

### Salaries and Job Market

The median annual wage for a mathematician was \$103, 010 in May 2017.

Overall employment of mathematicians and statisticians is projected to grow 33% from 2016 to 2026.

Due to the need to analyze an increasing volume of digital and electronic data, job opportunities are expected to be favorable for people with quantitative and data analysis skills.

### Employers

- Federal government
- Research and development
- Universities
- Finance and insurance
- Management, scientific, and technical consulting services

## GRAD SCHOOL EXAMS

If we compare the percentage by which the mean score of test takers from specific undergraduate majors differs from the mean score of all test takers, students who major in mathematics have higher mean scores on these tests than any other major.

Interested in Law School? Math majors score +12.8% in LSAT

Interested in Business School? Math majors score +13.3% in GMAT

If you have further questions, you can contact us.

klevdal@math.utah.edu  
serrano@math.utah.edu