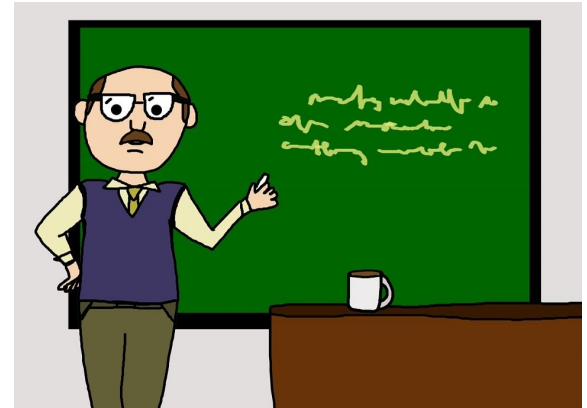
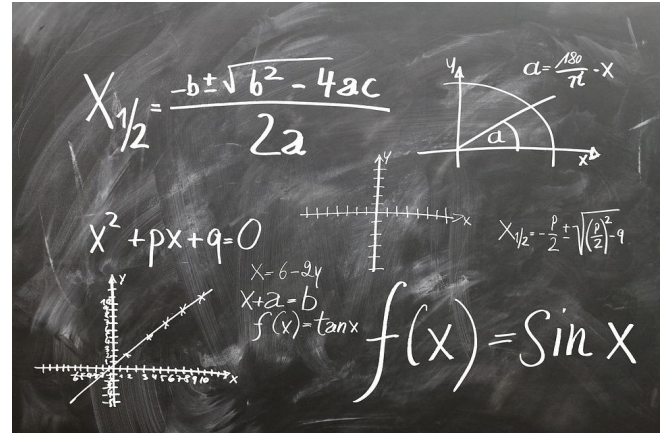
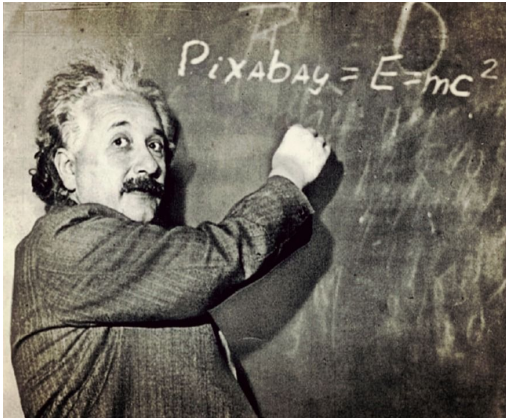


# Highschool Math Teacher

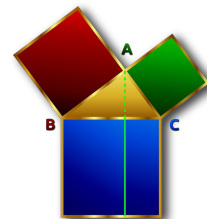


# What does a high school math teacher do?

- High-school math teachers **teach students** subjects like **geometry**, **statistics**, **algebra** and **calculus**.
- Daily tasks include planning lessons, creating sample problems, giving assignments, and writing tests. Most math teachers follow a state or district curriculum and use a textbook.

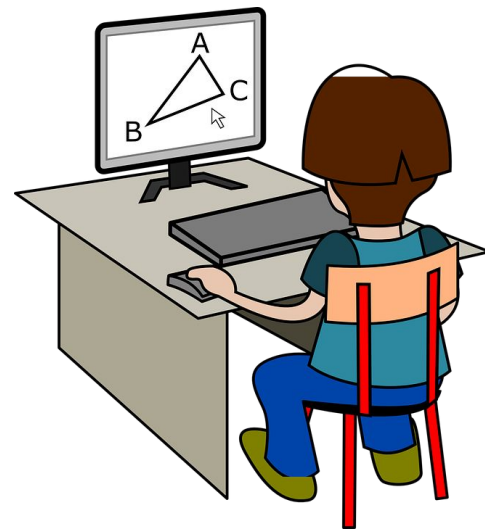


# Usage of Math



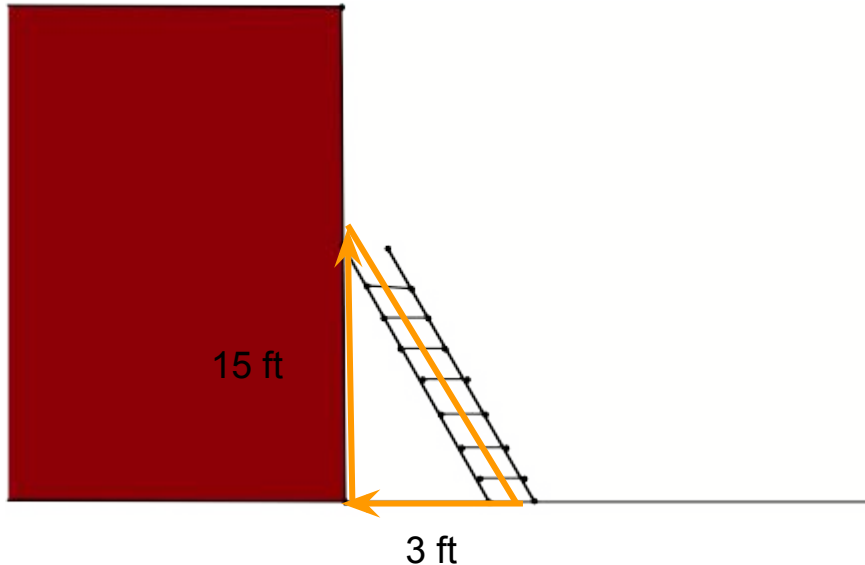
- High-school teachers use math to **demonstrate sample problems in class**, **create assignments for students**, and **write and grade tests**.

**Required Math:** Calculus I and II, Linear Algebra, Calculus of Several Variables, Ordinary Differential Equations, Theory of Analysis, Abstract Algebra, Statistics, Recommended: Graph Theory, Combinatorics, Number Theory



## Math Problem

A ladder is placed against the wall. The foot of the ladder is 3 feet away from the wall and the top of the ladder touches the wall at a point 15 feet off the ground. What is the slope of the ladder?



$$\frac{\text{Rise}}{\text{Run}} = 15 / 3$$

# Education



## → (B.S.) in **Mathematics**

These programs provide students with fundamental mathematical knowledge to formulate and solve problems, and to provide quality mathematical instruction to students in primary or secondary school settings. (**4 years**)

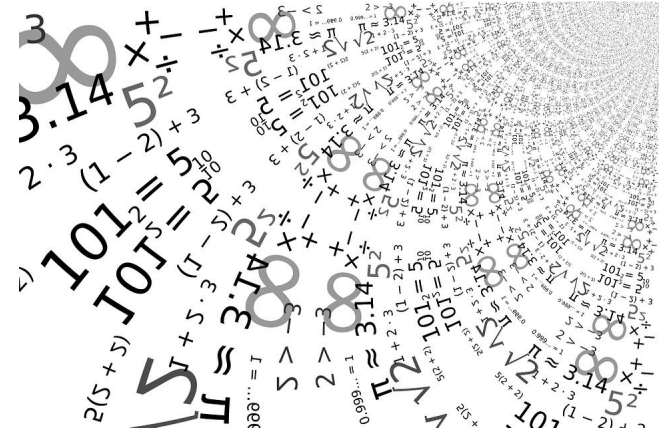
## → Master's:

Master's programs in mathematics education often focus on the analysis of theories about curriculum development and implementation, about learning and assessment, and about becoming an agent of change in mathematics education. (**2 years**)

# Education



→ The coursework for a **Ph.D.** program in mathematics focuses on higher-order mathematics and mathematical theory. Final step in completing a Ph.D. program in mathematics is completing qualifying written and oral exams, the presentation of original research and, most of the time, you work as a teaching assistant.



# Education



Requirements to become a teacher in California:

- Bachelor's Degree or higher from a regionally accredited university.
- Post-bachelor Teaching Credential program, which includes student teaching.  
**UCI offers the option of combining 4 years of college + 1 year of teaching credentials, all in 4 years.**
- An exam to show you need basic skills competency (**this exam is waived if you earn a math degree from UCI**)
- An exam to show competency in MATH
- Completion of a Language skills course, a constitution course and a computer technology course.

## Work Cited

<http://weusemath.org/?career=teacher-high-school>

<http://www.mathteacheredu.org>