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?

\[
\frac{\text{Rise}}{\text{Run}} = \frac{15}{3}
\]
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)
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