

Exam Content Information – UH Math Contest

NUMBER SENSE

Any student is eligible to take the Number Sense exam. The Number Sense exam will follow the style of the [UIL Number Sense Contest](#), but students will have 20 minutes for the exam instead of the UIL-designated 10 minutes (after being given 5 minutes to read instructions on how to use the online input system). All problems are to be solved mentally, no calculations are to be made with paper and pen/pencil, or a calculator. It will not be possible to change any input. So if a student intends to enter the fraction $11/13$, and instead they type $11/14$, they will not be able to change any digits/symbols that they have entered. (This simulates the in-person Number Sense exam where you use a pen and cannot erase what you write.) **Prior to 2025, the UH Number Sense exam was 30 minutes long, but we are changing it to 20 minutes in 2025 to better mirror the intensity of the UIL Number Sense contest.**

ALGEBRA I, GEOMETRY, ALGEBRA II AND PRECALCULUS

The exams for Algebra I, Geometry, Algebra II and PreCalculus will be based upon the [Texas Essential Knowledge and Skills for Mathematics](#) for each course. Students are eligible to sign up for at most one of Geometry, Algebra 2, or PreCalculus **provided that they sign up for an exam at or above the level of the course they are currently taking in school**. Students are permitted to take both the Algebra 1 and the Geometry exams **provided that their current-year course in school is Algebra 1 or below**.

STATISTICS, CALCULUS, AND PHYSICS

Any student is eligible to take the Statistics, Calculus or Physics exams.

The Statistics exam will be based on the guidelines for AP Statistics.

The Calculus exam will be based on the guidelines for AP Calculus AB.

The Physics exam will be based on the guidelines for AP Physics 1: Algebra-Based.

The AP guidelines for the Statistics, Calculus, and Physics exams can be found at the [College Board AP Central Website](#).

CALCULATION EXAM (formerly called the Calculator or Calculator/Computer Exam)

The Calculation Exam is open to all students. Each student is expected to have their own calculator and/or computer for the exam. **Any calculator and/or computer can be used on the Calculation Exam**. Some of the exam questions require the student to write basic code to solve problems that would otherwise be computationally prohibitive (assigning variables, writing loops, etc.).

SMACKDOWN COMPETITION

The SmackDown is a single-elimination contest. More details can be found on our [SmackDown description page](#).

CALCULATOR POLICY

The calculator policy for each exam can be found on our [Calculator Policy page](#).