

Number and Operations in Base Ten

Domain Overview

GRADE 3

In Grade 3 students use place value to extend previous work in addition and subtraction to 1,000. They use number line models to develop an understanding of rounding numbers. They build on multiplication facts and understanding to multiply one-digit numbers times multiples of 10.

GRADE 4

Fourth graders extend their work with place value to add and subtract multi-digit numbers using an efficient algorithm. They use strategies based on properties and place value to multiply and divide multi-digit numbers.

GRADE 5

Fifth graders extend their work with place value to include decimal numbers to the thousandths place. They use efficient algorithms to multiply multi-digit whole numbers. They begin to divide whole numbers with two-digit divisors. They extend their understanding of whole number operations to adding, subtraction, multiplying, and dividing decimals to hundredths.

This domain is not taught in isolation from the Operations and Algebraic Thinking domain. Students work across domains to develop a deep understanding of addition and subtraction by focusing on the instructional shift of rigor, that is, developing conceptual understanding, building skill and fluency, and applying all four operations in problem contexts.