

OP D Add and subtract fractions with friendly but unlike denominators (e.g., 2 and 10) using models and symbols

Grade	Curriculum Expectations
7	<ul style="list-style-type: none"> • use a variety of mental strategies to solve problems involving the addition and subtraction of fractions and decimals;
7	<ul style="list-style-type: none"> • add and subtract fractions with simple like and unlike denominators, using a variety of tools and algorithms;
8	<ul style="list-style-type: none"> • use estimation when solving problems involving operations with whole numbers, decimals, percents, integers, and fractions, to help judge the reasonableness of a solution;
8	<ul style="list-style-type: none"> • solve problems involving addition, subtraction, multiplication, and division with simple fractions.
9D	<ul style="list-style-type: none"> • simplify numerical expressions involving integers and rational numbers, with and without the use of technology;
9D	<ul style="list-style-type: none"> • solve problems requiring the manipulation of expressions arising from applications of percent, ratio, rate, and proportion;
9P	<ul style="list-style-type: none"> • solve problems involving ratios, rates, and directly proportional relationships in various contexts (e.g., currency conversions, scale drawings, measurement), using a variety of methods (e.g., using algebraic reasoning, equivalent ratios, a constant of proportionality; using dynamic geometry software to construct and measure scale drawings)
9P	<ul style="list-style-type: none"> • simplify numerical expressions involving integers and rational numbers, with and without the use of technology;*