

## Topic C

# Addition and Subtraction of Fractions, Whole Numbers, and Mixed Numbers

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In topic C, students apply their understanding of making like units with fractions to making like units to add and subtract mixed numbers.

Students find sums and differences in expressions involving mixed numbers. To add, students use a variety of methods, such as making the next whole, adding like units (i.e., whole numbers with whole numbers and fractions with fractions), and renaming fractions greater than 1 as mixed numbers. To subtract, students decompose the minuend to take from 1 or decompose the subtrahend. They represent their work by using a number line, the arrow way, and a number bond. Throughout the topic, students are encouraged to try different methods so they can make an appropriate choice based on the numbers in a given expression. Though all methods are validated and acceptable, students should notice that some methods can be more efficient than others. Students continue to estimate a sum or a difference to check the reasonableness of their answers.

In topic D, students apply their understanding of adding and subtracting mixed numbers to solve problems involving line plots with fractional measurements.