## Fairfield Mathematics Grade 5 Unit 2

## Fractions

In this unit your child will:

## - Add and subtract fractions

 with unlike denominators- Solve story problems involving addition
 and subtraction of fractions with unlike denominators
- Find common denominators for fractions with unlike denominators
- Find the greatest common factor and least common multiple to help simplify fractions and find common denominators

Your child will learn and practice these skills by solving problems like those shown below. Keep this sheet for referencewhen you'rehelping with homework. Use the free Math Vocabulary Cards app for additional support: mathlearningcenter.org/apps


## FREQUENTLY ASKED QUESTIONS ABOUT UNIT 2

## PROBLEM

Find the sum or difference.
$\frac{3}{7}+\frac{7}{21}=\frac{9}{21}+\frac{7}{21}=\frac{16}{21}$
$\frac{8}{15}-\frac{3}{6}=\frac{16}{30}-\frac{15}{30}=\frac{1}{30}$

## COMMENTS

Later in the unit, students will need to draw upon their understanding of factors and multiples, as well as of equivalent fractions, to add and subtract fractions with unlike denominators. In both examples here, students first need to determine a common denominator so that they can add or subtract the pair of fractions.

Q: Why do so many of the fraction problems use time and money?
A: Any fraction with a denominator that is a factor of $60(2,3,4,5,6,10,12,15,20,30)$ can be represented as part of the 60 minutes in a whole hour. Any fraction with a denominator that is a factor of $100(2,4,5,10$, $20,25,50$ ) can be represented as part of the 100 cents in a whole dollar. This makes a clock face and a whole dollar versatile models for a variety of fractions.


When students represent $\frac{2}{3}$ as part of a whole hour, they can see that it is also equal to $\frac{8}{12}, \frac{40}{60}$, and $\frac{4}{6}$.


When students represent $\frac{1}{4}$ as part of a whole dollar ( 100 cents in the whole square grid), they can see that it is equal to $\frac{25}{100}$.

The contexts of time and money are natural ways to ease students into thinking about adding and subtracting fractions with like and unlike denominators. When students represent each fraction as part of a whole hour or dollar, they are using the model to convert the original fractions into equivalent fractions that have a common denominator, as in the second example on the previous page.

