

KEY CONCEPT OVERVIEW

In Lessons 2 through 5, students learn how fractions can be interpreted as division **expressions**.

You can expect to see homework that asks your child to do the following:

- Draw pictures and use **tape diagrams** to model fractions as division and then solve.
- Express a fraction as division in different forms. (See Sample Problem below.)
- Solve word problems involving the division of whole numbers.

SAMPLE PROBLEM (From Lesson 3)

Fill in the chart.

Division Expression	Unit Form	Improper Fraction	Mixed Number	Standard Algorithm (Write your answer in whole numbers and fractional units. Then check.)
$3 \div 2$	6 halves \div 2 = 3 halves	$\frac{3}{2}$	$1\frac{1}{2}$	$ \begin{array}{r} 1\frac{1}{2} \\ 2 \overline{) 3} \\ \underline{-2} \\ 1 \end{array} $ <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> Check $2 \times 1\frac{1}{2} = 1\frac{1}{2} + 1\frac{1}{2}$ $= 2 + \frac{2}{2}$ $= 3$ </div>

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

HOW YOU CAN HELP AT HOME

- When serving pancakes or waffles, ask your child to explain how he could split them evenly among those eating breakfast. For example,
 - 2 pancakes are ready, and there are 4 family members. How many pancakes will each person get? (Each person will get $\frac{2}{4}$, or $\frac{1}{2}$, of a pancake.)
 - Now 5 pancakes are ready. How will you split those pancakes equally among four family members? (Each person will get $1\frac{1}{4}$ pancakes.)

TERMS

Expression: Any combination of sums, differences, products, or divisions of numbers that evaluates to a number. Expressions do not have an equal sign (e.g., $600 + 3 + 0.07$).

Improper fraction: The numerator of a fraction is greater than the denominator of the fraction (e.g., $\frac{5}{2}$).

Mixed number: A number made up of a whole number and a fraction (e.g., $13\frac{42}{100}$).

Standard algorithm: A standard step-by-step procedure to solve a particular type of problem. For example, the process of long division is a standard algorithm.

Unit form: A number expressed in terms of its units. For example, the number 0.863 written in unit form is 8 tenths 6 hundredths 3 thousandths.

MODELS

Tape Diagram

