NAME

Module 6 Computational Fluency of Fractions Lesson 6 Dividing Fractions



Lesson Objectives

- Model division of fractions using diagrams and/or illustrations of manipulatives.
- Develop and use algorithms for dividing fractions.

Subtopic 1 Dividing Using Models and the Invert-and-Multiply Algorithm

Two numbers are multiplicative inverses or ______ of each other if their product is 1.

Multiplicative Inverse or Reciprocal

- For a _____ number *n*, the reciprocal is $\frac{1}{n}$.
- Zero does not have a _____.

Use a model to divide $\frac{5}{8}$ into five equal groups.



Pedro has $1\frac{4}{5}$ hours to study for three tests. If Pedro divides his time equally, how long can he study for each test?

Subtopic 2 Dividing Using Models and the Common Denominator Algorithm

Dividing Fractions Using the Common Denominator

- Write both ______ in terms of a common denominator. •
- Divide the _____. •

Lewis has $\frac{15}{16}$ cup of juice mix. It takes $\frac{3}{8}$ cup of mix to make one pitcher of juice. How many pitchers of juice can Lewis make? Use a model.

To divide a fraction, whole number, or mixed number by a _____, multiply the dividend by the ______ of the divisor.