

NAME _____

Module 6 Computational Fluency of Fractions
Lesson 5 Multiplying Fractions

Lesson Objectives

- Model multiplication of fractions, including mixed numbers, using diagrams and/or illustrations of manipulatives.
- Develop and use algorithms for multiplying fractions.

Subtopic 1 Multiplying Fractions with and Without Models

Multiplying Fractions

- Multiply the _____.
- Multiply the _____.
- Write the product in _____.

1 $\frac{5}{7}$ of John's video games are sports games. $\frac{14}{15}$ of these sports games are basketball games. What fraction of John's video games are basketball games? If John has 42 video games, how many are basketball games?

2 Kody walks $\frac{3}{4}$ of a mile every day. How many miles does he walk in 12 days?

Subtopic 2**Simplifying Fractions Before Multiplying****Simplifying Fractions Before Multiplying**

- Simplify _____ by dividing out common factors.
- Multiply the _____.
- Multiply the _____.
- The _____ will be in simplest form.



$\frac{9}{20}$ of the students at Stellar Elementary School eat breakfast. $\frac{8}{27}$ of these students eat breakfast at school. What fraction of all students at Stellar Elementary School eat breakfast at school? If the school has 540 students, find the total number of students who eat breakfast at school.

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4 $\frac{8}{9}$ of the students stay after school for extracurricular activities, and $\frac{12}{13}$ of these students play sports. What fraction of the students stays after school to play sports? If the total number of students in the school is 2,808, how many students play sports?

Subtopic 3 **Multiplying with Mixed Numbers**

5 If Stacey rides a school bus $4\frac{8}{9}$ miles every week, how many miles will she ride in three weeks?