



Arithmetic Operations Including Dividing by a Fraction

In Module 2, students complete their understanding of the four operations as they study division of whole numbers, division by a fraction, and operations on multidigit decimals. This expanded understanding serves to complete their study of the four operations with positive rational numbers.

Big Ideas

- Dividing Fractions by Fractions
- Multi-Digit Decimal Operations Adding, Subtracting, and Multiplying
- Dividing Whole Numbers and Decimals
- Number Theory Thinking Logically About Multiplicative Arithmetic



Additional Resources

Virtual Manipulatives: http://www.glencoe.com/sites/ common_assets/mathematics/
ebook_assets/vmf/VMF-Interface.html

Fraction Tiles can be found on this site



tutor.com http://military.tutor.com/

Math Terminology

- Composite Number
- Distributive Property
- Dividend
- Divisor
- Estimate
- Factors
- Greatest Common Factor (GCF)
- Least Common Multiple (LCM)
- Multiples
- Multiplicative Inverse
- Prime Number
- Reciprocal

College and Career Ready Standards

Apply and extend previous understandings of multiplication and division to divide fractions by fractions.

Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.

Compute fluently with multi-digit numbers and find common factors and multiples.

- Fluently divide multi-digit numbers using the standard algorithm.
- Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.
- Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.

Major Standards 🔲 Supporting Standards 🔘 Additional Standards

Information for this newsletter was gathered from DoDEA's CCRSM Curriculum Framework and engage^{ny}



New Math Terminology and Examples

- Greatest Common Factor The greatest common factor of two whole numbers (not both zero) is the greatest whole number that is a factor of each number.
 - What is the GCF of 24 and 36?
 - It is 12 because when all of the whole number factors of 24 and 36 are listed, the largest factor they share is 12.
- Least Common Multiple The least common multiple of two whole numbers is the smallest whole number greater than zero that is a multiple of each number.
 - What is the LCM of 4 and 6?
 - It is 12 because when the multiples of 4 and 6 are listed, the smallest or first multiple they share is 12.
- Multiplicative Inverses A multiplicative inverse of a number is a number such that the product of both numbers is 1.
 - + 3 /4 and 4 /3 are multiplicative inverses of one another because

$$\frac{3}{4} \times \frac{4}{3} = 1$$



CCRSM Grade 6 Module 2