COMMON CORE STATE STANDARDS 2010

FrameworkGUIDE Mathematics, Grade 6

| Unit | Essential Standards | Supporting Standards | Resources |
|-------------------------------|---|--|---|
| Unit: Compute Fluently & Find | 6.NS.02 Compute fluently with multi-digit numbers | 6.RP.03b Understand ratio concepts and use ratio | TaskPERFORM |
| Common Factors & Multiples | and find common factors and multiples. Fluently | reasoning to solve problems. Use ratio and rate | Factors & Multiples |
| | divide multi-digit numbers using the standard | reasoning to solve real-world and mathematical | |
| Time: 12 days | algorithm. | problems, e.g., by reasoning about tables of | TargetStrategies |
| | 6.NS.03 Compute fluently with multi-digit numbers | equivalent ratios, tape diagrams, double number | Dividing Multidigit Numbers |
| Standards for Mathematical | and find common factors and multiples. Fluently | line diagrams, or equations. Solve unit rate | Operations with Decimals |
| Practice: | add, subtract, multiply, and divide multi-digit | problems including those involving unit pricing | Greatest Common Factors |
| 4, 7, 8 | decimals using the standard algorithm for each | and constant speed. For example, if it took 7 | & Least Common Multiples |
| | operation. | hours to mow 4 lawns, then at that rate, how | |
| Content | 6.NS.04 Compute fluently with multi-digit numbers | many lawns could be mowed in 35 hours? At | TargetFundamentals |
| Addition of whole numbers and | and find common factors and multiples. Find the | what rate were lawns being mowed? | NS036 Divide Two- and Three- |
| decimals | greatest common factor of two whole numbers | 6.RP.03d Understand ratio concepts and use ratio | Digit Numbers by One-Digit |
| Subtraction of whole numbers | less than or equal to 100 and the least common | reasoning to solve problems. Use ratio and rate | Numbers without Remainders |
| and decimals | multiple of two whole numbers less than or | reasoning to solve real-world and mathematical | NS054 Perform Basic Operations |
| Multiplication of whole | equal to 12. Use the distributive property to | problems, e.g., by reasoning about tables of | with Whole Numbers |
| numbers and decimals | express a sum of two whole numbers 1–100 with | equivalent ratios, tape diagrams, double number | NS062 Divide a Decimal by a |
| Division of whole numbers and | a common factor as a multiple of a sum of two | to convert measurement units, manipulate and | Whole Number |
| decimals | whole numbers with no common factor. For avample, express $26 \pm 8 \text{ as } 4(0 \pm 2)$ | transform units appropriately when multiplying | NS064 Find the Prime |
| Factors/multiples | example, express 50 + 8 us 4(9 + 2). | or dividing quantities | Factorization of a Composite |
| Distributive property | | or arriting quantities. | Number Using a Factor Tree |
| Greatest common factor | | | NS066 Multiply Decimals |
| Least common multiple | | | Nultiple and Createst Common |
| | | | Factor between Two Numbers |
| | XN | | NS074 Find the Prime |
| | | | Eactorization of a Number |
| | \mathbf{O} | | ractorization of a Number |
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COMMON CORE STATE STANDARDS 2010

FrameworkGUIDE Mathematics, Grade 6

| Unit | Essential Standards | Supporting Standards | Resources |
|---|--|----------------------|--|
| Unit: Dividing Fractions by | 6.NS.01 Apply and extend previous understandings | | TaskPERFORM |
| Fractions | of multiplication and division to divide fractions | | Modeling Division of Fractions |
| | by fractions. Interpret and compute quotients of | XU | |
| Time: 10 days | fractions, and solve word problems involving | | TargetStrategies |
| | division of fractions by fractions, e.g., by using | | Dividing Fractions |
| Standards for Mathematical | visual fraction models and equations to | | |
| Practice: | represent the problem. <i>For example, create a</i> | | TargetFundamentals |
| 1, 2, 4 | story context for $\frac{2}{3} \div \frac{3}{4}$ and use a visual | | NS065 Multiply and Divide Fractions |
| Content | fraction model to show the quotient; use the | | |
| Multiplication of fractions | relationship between multiplication and division | Co | PAL Packets (Parent Assisted |
| Division of fractions | to explain that $\frac{2}{3} \div \frac{3}{3} = \frac{8}{5}$ because $\frac{3}{5}$ of $\frac{8}{5}$ is | | Learning) |
| | , 349 49 | | Single-Step Word Problems |
| | $\frac{2}{2}$. (In general, $\frac{a}{b} \div \frac{c}{d} = \frac{ad}{bc}$.) How much | | Involving Division of Fractions |
| | 5 D U DC chocolate will each person get if 3 people share | $\wedge O$ | |
| | | | CoreASSESS |
| | $\frac{1}{2}$ lb of chocolate equally? How many $\frac{1}{4}$ -cup | | Dividing Fractions by Fractions |
| | servings are in $\frac{2}{3}$ of a cup of yogurt? How wide | | |
| | 3 | | |
| | is a rectangular strip of land with length $\frac{2}{4}$ mi | | |
| | and area $\frac{1}{2}$ square mi? | | |
| | | | |
| | Rioper | | |

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