Numbers & Operations-6th Grade; 2nd Trimester

Standards	Vocabulary	Assessments/Activities	Resources
Multiply and divide fractions **N.MR.06.01** Understand division of fractions as the inverse of multiplication, e.g., if 4/5 ÷ 2/3 =☐, then 2/3 • ☐ = 4/5, so ☐ = 4/5 • 3/2 = 12/10. **N.FL.06.02** Given an applied situation involving dividing fractions, write a mathematical statement to represent the situation. **N.MR.06.03** Solve for the unknown in equations such as 1/4 ÷ ☐ = 1, 3/4 ÷ ☐ = 1/4, and 1/2 = 1 • ☐. **N.FL.06.04** Multiply and divide any two fractions, including mixed numbers, fluently. **Represent rational numbers as fractions or decimals** **N.ME.06.05** Order rational numbers and place them on the number line. **N.ME.06.06** Represent rational numbers as fractions or terminating decimals when possible, and translate between these representations. **N.ME.06.07** Understand that a fraction or a negative fraction is a quotient of two integers, e.g., - 8/3 is -8 divided by 3. **Add and subtract integers and rational numbers** **N.MR.06.08** Understand integer subtraction as the inverse of integer addition. Understand integer division as the inverse of integer multiplication. **N.FL.06.09** Add and multiply integers between -10 and 10; subtract and divide integers using the related facts. Use the number line and chip models for addition and subtraction. **N.FL.06.10** Add, subtract, multiply and divide positive rational numbers fluently.	decimal denominator equivalent fractions fraction numerator percent absolute value coordinates expense, loss income, profit integer inverse operations negative integer number sentence opposites positive integer	Investigations and ACE assignments from Connected Math Quizzes and tests from Connected Math and ExamView	Bits & Pieces II; Connected Math; Prentice Hall Accentuate the Negative; Connected Math; Prentice Hall Arithmetic Developed Daily-Grade 5 & 6; GROW Publications

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Find equivalent ratios **N.ME.06.11** Find equivalent ratios by scaling up or scaling down. **Solve decimal, percentage and rational number problems** **N.FL.06.12** Calculate part of a number given the percentage and the number. **N.MR.06.13** Solve contextual problems involving percentages such as sales taxes and tips. **N.FL.06.14** For applied situations, estimate the answers to calculations involving operations with rational numbers. **N.FL.06.15** Solve applied problems that use the four operations with appropriate decimal numbers. **Use exponents** **N.ME.06.16** Understand and use integer exponents, excluding powers of negative bases; express numbers in scientific notation. **Understand rational numbers and their location on the number line** **N.ME.06.17** Locate negative rational numbers (including integers) on the number line; know that numbers and their negatives add to 0, and are on opposite sides and at equal distance from 0 on a number line. **N.ME.06.18** Understand that rational numbers are quotients of integers (non zero denominators), e.g., a rational number is either a fraction or a negative fraction. **N.ME.06.19** Understand that 0 is an integer that is neither negative nor positive. **N.ME.06.20** Know that the absolute value of a number is the value of the number ignoring the sign; or is the distance of the number from 0.			

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