

Van Buren Public Schools

Course Name: 6th Grade Mathematics

SF-AW: SCOTT FORESMAN-ADDISON WESLEY 1; PH: PRENTICE HALL; EM: EVERYDAY MATH; MATH 76: SAXON MATH 76

STRAND: NUMBER AND OPERATIONS

Essential Outcomes/ Standards	Grade Level Content Expectations	Resources	Vocabulary	Assessments	Notes: Suggested Activities
Multiply and divide fractions					
Understand division of fractions as the inverse of multiplication, e.g., if $\frac{4}{5} \div \frac{2}{3} = \square$, then $\frac{2}{3} \times \square = \frac{4}{5}$, so $\square = \frac{4}{5} \cdot \frac{3}{2} = \frac{12}{10}$.	N.MR.06.01 [Core]	SF-AW: 7-1,7-4, 7-5, 7-6 Math 76: L 67 PH 262-265	Inverse, dividend, divisor, quotient, product	Practice Reteaching 6-9	
Given an applied situation involving dividing fractions, write a mathematical statement to represent the situation.	N.FL.06.02 [Core]	SF-AW: 7-3, 7-6 Math 76: L 67 (follow up) Division Packet	Dividend, divisor, quotient		<u>Mangoes Problem</u> <u>Division Packet</u>
Solve for the unknown in equations such as: $\frac{1}{4} \div \square = 1$, $\frac{3}{4} \div \square = \frac{1}{4}$ and $\frac{1}{2} = 1 \times \square$.	N.MR.06.03 [Future Core]	SF-AW: 2-6, 2-7, 2-13 PH 242-244	Estimate, product, variable	Practice Reteaching 6-4	

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Multiply and divide fractions					
Multiply and divide any two fractions, including mixed numbers, fluently.	N.FL.06.04 [Core]	SF-AW: 7-3, 7-6 Math 76: L 65; L 67 PH 253-267			
Represent rational numbers as fractions or decimals					
Order rational numbers and place them on the number line.	N.FL.06.05 [Core]	SF-AW: 3-3, 9-1 Math Steps: Rational Numbers PH 434-437 EM 97-98 Bits & Pieces I Pg. 30C			
Represent rational numbers as fractions or terminating decimals when possible and translate between these representations.	N.ME.06.06 [Extended Core]	SF-AW: 5-7 Math 76: L35; L73 PH 213-217	Rational numbers, integers, divisor, dividend, quotient		

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Represent rational numbers as fractions or decimals					
Understand that a fraction or a negative fraction is a quotient of two integers, e.g., $-8/3$ is $= -8$ divided by 3.	N.ME.06.07 [Future Core]	SF-AW: 9-4 Math 76: L 134 EMM 450-452 EM 87-88	Word phrases, integer, negative integer, positive integer, product		
Add and subtract integers and rational numbers					
Understand integer subtraction as the inverse of integer addition, add and subtract integers, using integers from 10 to -10.	N.MR.06.08 [Future Core]	SF-AW: 9-2, 9-3 Math 76: L 126	Integer, positive integer, negative integer,		
Add, subtract, multiply, and divide integers between -10 and 10. Use the number line and strip models for addition and subtraction	N.FL. 06.09 [Future Core]	SF-AW: 9-2, 9-3, 9-4 Math 76: L 121; L 126; L 134	Integer		

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Add and subtract integers and rational numbers					
Add, subtract, multiply and divide positive rational numbers fluently.	N.FL.06.10 [Core]	SF-AW: 2-6, 2-7 Math 76: L 24; L 56; L 59; L 36; L 29; L 71; L 53; L 49	Estimate, product		
Find equivalent ratios					
Find equivalent ratios by scaling up or scaling down.	N.ME.06.11 [Core]	SF-AW: 10-2 PH 281-284	Ratio	Practice Reteaching 7-2	
Solve decimal, percentage, and rational number problems					
Calculate part of a number given the percentage and the number.	N.FL.06.12 [Extended Core]	SF-AW: 10-11 Math 76: L 112; L 118	Clear entry key, decimal key, division key, minus M-, plus M+, memory RM, clear Mem. CM		
Solve word problems involving percentages in such contexts as sales taxes and tips and involving positive rational numbers.	N.FL.06.13 [Core]	SF-AW: 10-9, 10-11 Math 76: L 112; L 118; L 119 PH 307-310	Statistics, line graph, circle graph, box-and-whiskers, random sample, questionnaire, frequency, histogram, temperature, stem-and-leaf plots,		<u>Shopping Game</u> <u>Twizzlers</u>

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Solve decimal, percentage, and rational number problems					
For applied situations, estimate the answers to calculations involving operations with rational numbers	N.FL.06.14 [Core]	SF-AW: 2-6, 2-7, 3-2, 6-4 Math 76: L 16; L 128; L 50	Estimate, product		<u>How Big Is Your Heart</u> (skills) <u>Every Beat Of Your Heart</u> (skills)
Solve applied problems that use the four operations with appropriate decimal numbers.	N.FL.06.15 [Core]	SF-AW: 3-6, 3-7, 3-8, 3-9, 3-10, 3-11 Math 76: L 37; L 38; L 39; L 40; L 42; L 44; L 46; L 48 PH 99-111, 157-166, 148-155	Mean, median, mode, range, Statistics, line graph, circle graph, box-and-whiskers, random sample, questionnaire, frequency, histogram, temperature, stem-and-leaf plots,		<u>Create an Address Number</u> (skills) 100 Meter Dash
Use exponents					
Understand and use integer exponents, excluding powers of negative numbers; express numbers in scientific notation.	N.ME.06.16 [Future Core]	SF-AW: 3-4; Pg. 505 PH 139-142 EM 6-8	Exponents, divisor, dividend, quotient, negative integers, positive integers,	Practice Reteaching 4-2	

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Understand rational numbers and their location on the number line					
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.06.17 [Core]	SF-AW: 9-2 Math 76: L 14; L 88 PH 438-441 EM 101 EMM 450-452	Integer,		
Understand that rational numbers are quotients of integers (nonzero denominators), e.g., a rational number is either a fraction or a negative fraction.	N.ME.06.18 [Extended Core]	SF-AW: 9-4 Math Steps: Rational Numbers EM 97-102 EMM 452-453	Integer, positive integer, negative integer		
Understand that 0 is an integer that is neither negative nor positive.	N.ME.06.19 [Extended Core]	SF-AW: 9-1 Math 76: L 14 EM 91-92	Integer, positive integer, negative integer		

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Understand rational numbers and their location on the number line					
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	N.ME.06.20 [Extended Core]	SF-AW: 9-1	Absolute value, integer, line graph, bar graph, statistics		