Study Guide

Chapter 1 – Whole Numbers & the Four Operations

Math Skill	Example / Notes
I can write numbers up to 10,000,000 in word form, standard form, and expanded form	**Standard Form:** 2,345,076 **Word Form:** Two million, three hundred forty-five thousand, seventy-six **Expanded Form:** 2,000,000 + 300,000 + 40,000 + 5,000 + 70 + 6
I can <u>multiply</u> numbers by tens, hundreds, and thousands (multiples of ten).	4 x 1,000 = 4,000 60 x 600 = 36,000 850 x 3,000 = 2,550,000 ** Hint: multiply the digits in front and add the total number of zeroes on to the product.*
I can <u>divide</u> numbers by tens, hundreds, and thousands (multiples of ten).	4,000 ÷ 1,000 = 4 3,000 ÷ 10 = 300 56,000 ÷ 800 = 70 ** Hint: cancel out pairs of zeroes in divisor and dividend. Then divide digits in the front of each number and add leftover zeroes if needed.*
I can <u>multiply</u> by multi-digit numbers.	547 x 52 = 28,444 *1.) Set up problem with # that has most digits on top.* *2.) Multiply the ones by each digit in top number.* *3.) Add zero hero.* *4.) Multiply the tens by each digit in top number.* *5.) Add digits in each place value column*

Math Skill	Example / Notes
I can complete <u>long division</u> with two-digit divisors.	$7{,}043 \div 23 = 306$ R5 ***Follow family of division steps:*** *Dad = DIVIDE* *Mom = MULTIPLY* *Sister = SUBTRACT* *Brother = BRING DOWN* *Rover = REPEAT / REMAINDER*
I can solve expressions using <u>order of operations</u> (PEMDAS).	$3 + 8 \times (50 - 30) - 10 = 153$ *Complete operations in the correct order based on "Please excuse my dear aunt Sally" (PEMDAS).* ***P*** *= parentheses* ***E*** *= exponents* ***MD*** *= multiply and divide (left to right)* ***AS*** *= add and subtract (left to right)*
I can understand and solve single and multi-step <u>word problems</u> by choosing the correct operations.	A box of chocolate costs $8.55. Each box contains 3 pounds of chocolate. If a family wants to buy 30 pounds of chocolate, how much money would they need to spend? ***1st – Figure out how many boxes the family would need to buy to get 30 total pounds of chocolate.*** *30 ÷ 3 = 10 boxes* ***2nd – Figure out how much money it would cost the family to buy 10 total boxes of chocolate.*** *10 x $8.55 = $85.50*

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