

5th Grade Mid-Term Review

Chapter 1:

- 1.1 – Place Value System
 - Number in word form
 - Number in expanded form
 - Number in standard form
 - Place of underline digit
 - Value of underline digit
 - Place Value Chart
- 1.2 – Explore Decimal Place Value
 - Write decimal into fraction
 - Write fraction into a decimal
- 1.3 – Decimal Place Value
 - Place of underline digit (review)
 - Value of underline digit (review)
 - Write and Recognize Equivalent Decimals
- 1.4 – Compare and Order Whole Numbers and Decimals
 - Order from least to greatest
 - Order from greatest to least
 - Understand if a number is greater than ($>$), less than ($<$), or equal to ($=$) when reading from left to right
- 1.5 – Problem Solving
 - Know how to solve a problem when given a chart with data
 - Know the Four-Step Process to Solving Problems
- 1.6 – Add and Subtract Whole Numbers and Decimals
 - Understand when adding and subtracting decimals, the decimal point lines up
 - Understand when adding and subtracting, all digits are place in proper place value position when adding and subtracting
 - Know when to add 0s when subtracting and minuend (top number) has fewer numbers to the right of the decimal point than the subtrahend (bottom number)
- 1-7 Estimate Sum and Differences
 - Understand how to round a number to the nearest place value given
 - Know the 4 steps to rounding:
 - **Step 1:** Underline the number in question. Ask the question: Change or not?
 - **Step 2:** Circle the number immediate to the right of the underline number.
 - **Step 3:** If the circled number is $>$ or $=$ to 5, then
 - Change the circled number and all numbers to right to 0
 - Increase the underline number by 1
 - **Step 4:** If the circled number is $<$ 5, then

- Change the circled number and all numbers to the right to 0
 - Leave the underlined number as is
- 1.9 – Properties of Addition
 - Know the three properties of addition and be able to recognize when it is being used from one side of an equation to another
 - Commutative
 - Associative
 - Identity
 - Identify the missing number from one side of the equation to another
 - Be able to provide an example of each property
- ✓ Chapter 1 Material to Review:
 - Chapter 1 Quizzes and Test
 - Check Your Progress A pg. 16
 - Check Your Progress B pg. 36
 - Extra Practice pp. 37-39
 - Chapter Study Guide & Chapter Test pp. 40-42
 - All Homework assigned in Chapter 1
 - Math Vocabulary Words

Chapter 2:

- 2.1 – Multiplication Patterns
 - Multiplying numbers who factor(s) ends in 0's (e.g. 700 x 50)
- 2.2 – Explore the Distributive Property
 - Multiply using traditional method
 - Multiply using distributive method (put factor(s) in expanded form first)
- 2.3 – Multiply Whole Numbers (one factor is single or more digits)
 - Multiply using traditional method
 - Multiply using distributive method (put factor(s) in expanded form first)
- 2.4 – Properties of Multiplication
 - Know the five properties of multiplication and be able to recognize when it is being used from one side of an equation to another
 - Commutative
 - Associative
 - Identity
 - Zero
 - Distributive
 - Identify the missing number from one side of the equation to another
 - Be able to provide an example of each property
- 2.5 – Estimate Products
 - Round products first, then multiply
 - Know the three general rules for rounding products:
 - **Small numbers:** round to nearest ten
 - **Large numbers:** round to nearest hundred or thousand

- **Decimals:** round to nearest whole number
- 2.7 – Multiply Whole Numbers by Decimals
 - Multiply using traditional method
 - Multiply using distributive method (put factor(s) in expanded form first)
- 2.8 & 2.9 - Multiply Decimals by Decimals
 - Multiply using traditional method
 - Multiply using distributive method (put factor(s) in expanded form first)
- 2.11 – Exponents
 - Know how to expand exponents
 - Know how to write exponents from expanded form
 - Know how to solve exponents
- ✓ Chapter 2 Material to Review:
 - Chapter 2 Quizzes and Test
 - Check Your Progress A pg. 68
 - Check Your Progress B pg.90
 - Extra Practice pp. 91-93
 - Chapter Study Guide & Chapter Test pp. 94-96
 - All Homework assigned in Chapter 2
 - Math Vocabulary Words

Chapter 3:

- 3.1 – Relate Multiplication and Division
 - Know the three ways of writing a division problem
 - Fraction form: $\frac{700}{50}$
 - Long (House) Division form: $50 \overline{)700}$
 - Horizontal form: $700 \div 50$
- 3.2 & 3.3 – Dividing by 1-Digit Divisor
 - Know how to write a remainder as a fraction (remainder / divisor)
 - Divide using traditional method
- 3.4 – Divide by 2-Digit and 3-Digit Divisors
 - Know how to write a remainder as a fraction (remainder / divisor)
 - Divide using traditional method
- 3.5– Estimating Quotients
 - Round divisor and dividend as close to the original number where the divisor will go evenly into the dividend.
 - Know how to divide using multiples of 10, 100, and 1000 - When using zeros, put in fraction form and cross off common zeros.
- 3.6 & 3.7 – Problem Solving
 - Know how to solve a “Interpreting the Remainder” word problem
 - Know how to solve a “Working Backwards” word problem

- 3.8 – Divide Decimals by Whole Numbers
 - Know how to divide when dividend is a decimal number and divisor is a whole number
 - Know patterns of multiplying when factor(s) are multiple of 10 (move decimal point to right same amount of spaces as zeros in factors), add zeros (at end of number) when necessary (e.g. $12.34 \times 10000 = 123400 \Rightarrow$ decimal point is moved to right four spaces, had to add two 0s at the end of number 1234)
 - Know patterns of dividing when divisor is multiple of 10 (move decimal point to left same amount of spaces as zeros in divisor), add zeros (to left of original number and to right of decimal point) when necessary. (e.g. $12.34 \div 10000 = .001234 \Rightarrow$ decimal point is moved to left four spaces, had to add two 0s between the decimal point and to the left of 1234)
- 3.9 & 3.10 – Dividing Decimals by Decimals
 - Know how to divide decimals by decimals
 - Move decimal point in divisor as many places to the right to make a whole number
 - Move the decimal point in the dividend as many places to the right that was moved in the divisor (what you do to the divisor, must do the same to the dividend)
 - Add 0s for placement is necessary
- ✓ Chapter 3 Material to Review:
 - Quiz 1
 - Check Your Progress A pg. 120
 - Check Your Progress B pg. 138
 - Extra Practice pp. 141
 - Chapter Study Guide & Chapter Test pp. 142-144
 - All Homework assigned in Chapter 3 (January calendar)
 - Math Vocabulary Words (up to Jan. 4)