

## Competencies:

## Competency 1:

The student will demonstrate knowledge of place value by:

1. Identifying place value
2. Writing numbers using word notation, standard notation, and expanded notation
3. Rounding whole numbers

## Competency 2:

The student will demonstrate knowledge of whole numbers by:

1. Performing operations with addition, subtraction, multiplication, and division with whole numbers
2. Solving applications involving operations with whole numbers including area and perimeter
3. Performing order of operations including absolute value
4. Evaluating exponents with whole numbers
5. Classifying sets of numbers
6. Comparing magnitude of real numbers
7. Identifying and applying the properties of real numbers

## Competency 3:

The student will demonstrate knowledge of integers by:

1. Performing operations with integers, including applications
2. Evaluating exponents with integers
3. Evaluating absolute value expressions

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Reviewed By Director of Academic Programs Date:
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## Competency 4:

The student will demonstrate knowledge of fractions by:

1. Performing operations with addition, subtraction, multiplication, and division with fractions
2. Distinguishing between proper fractions, improper fractions, and mixed numerals
3. Performing operations with addition, subtraction, multiplication, and division with mixed numerals
4. Solving applications involving operations with fractions

## Competency 5: <br> The student will demonstrate knowledge of decimals by:

1. Performing operations with addition, subtraction, multiplication, and division with decimals
2. Rounding decimals
3. Solving applications involving operations with decimals

## Competency 6: <br> The student will demonstrate knowledge of percent by:

1. Using percent notation, fractional notation, and decimal notation interchangeably 2. Solving applications involving percentages

## Competency 7:

The student will demonstrate knowledge of basic geometric figures by:

1. Solving application problems including finding the perimeter of polygons and the circumference of circles
2. Finding the area of a triangle, parallelograms, and circle
3. Converting units of measurement within the same measurement system

## Competency 8:

The student will demonstrate knowledge of Pre-Algebra by:

1. Setting up and solving ratios and proportions with simple algebraic expressions
2. Solving linear equations involving the addition and multiplication properties of equality
3. Defining variables and writing an expression to represent a quantity in a problem
4. Combining like terms in one variable (e.g., $2 x+5 x$ )
5. Evaluating algebraic expressions(e.g., find the value of $3 x$ when $x=2$ )
6. Solving formulas with given values
7. Graphing an inequality on a number line
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