STUDENT REPORT

NAME ________________________________

DATE ________________________________

☐ Use a decision making, problem solving process, vocabulary and operational.
☐ Solve fraction, decimal, and percent problems.
☐ Calculate percent
☐ Compute sales tax, unit prices, and sales prices.
☐ Solve real world problems using probability.
☐ Solve algebraic equations.
☐ Solve one and two-step algebra problems.
☐ Find squares and square roots.
☐ Solve measurement problems.
☐ Find perimeter, area, and volume.
☐ Interpret and compare data from graphs and charts.
☐ Know different types and relationships of angles and triangles including the Pythagorean relationship.
1) Use decision-making problems solving process, vocabulary, and operational terms.
   I) Vocabulary and operational terms.
   II) Steps in solving real world problems.

2) Solve fractions, decimal, and percent problems.
   I) Solve fractions.
   II) Solve decimals.

3) Calculating percents.
   I) Find percents.

4) Compute sales tax, unit price and sale price.
   I) Solve word problems using the interest, distance and cost formula.
   II) Calculating net value.
   III) Find the total for an order after calculating the cost of two items and sales tax.
   IV) Calculate the difference between hourly and daily wages.

5) Solve real world problems using probability.
   I) Associate verbal names, written word name, written word name and standard numeral with ratios and proportions.
   II) Understand the relationship between ratio and proportion and fractions.
   III) Solve word problems using ratio and proportion.

6) Solve algebraic equations.
   I) Writing algebraic expressions.
   II) Constructing a rectangular coordinates system showing positive and negative X and Y values.
   III) Describing a variety of patterns and relationships.
7) Solve one and two step algebra equations with one variable.
   I) Solving one step equations.
   II) Solving two-step equations.

8) Finding squares and square roots.
   I) Solve equations with the mathematic concepts of squares, square roots, and order of operations.

9) Solve measurement problems.
   I) Convert between metric units.
   II) Convert U.S. system of measures (yards-feet-inches; cups-pints-gallons).

10) Find perimeter, area, and volume.
    I) Solve geometry problems using area, perimeter, and volume formulas.
    II) Solve real-world problems by estimating measurements.

11) Interpret and compared data from a graph and table.
    I) Interpret and compare data.

12) Know different types and relationships of angles and triangles.
    I) Angles.
    II) Triangles.
1) Use decision-making, problem solving process, vocabulary, and operational term.
   I) Vocabulary and operational terms.
      a) Recognizing clue words in choosing operations
         - Add, plus, total.
         - Subtract, difference, left, remaining.
         - Multiply, times, several.
         - Divide.
   II) Steps in solving real-world problems.
      b) Explaining the reasoning steps in solving real-world problems
         - Determining the question.
         - Identifying the information given
         - Deciding on the operation
         - Working and checking
         - Making certain the answer is logical.

2) Solve fraction, decimal percent problems.
   I) Solve fraction.
      a) Writing numbers as fractions.
      b) Understanding the concept of numerators and denominators.
      c) Add, subtract, multiply and divide fractions.
      d) Identifying proper, improper, and mixed fractions.
      e) Converting from mixed to improper fractions
      f) Converting from improper to mixed fractions
      g) Reduce common fractions
      h) Convert fractions to decimals
      i) Convert fractions to percents
      j) Convert decimals to fractions
      k) Convert decimals to percents
      l) Convert percents to fractions
      m) Convert percents to decimals
   II) Solve decimals.
      a) Add, Subtract, multiply and divide decimals
      b) Convert common fractions to decimals
      c) Convert decimals to fractions.
      d) Understanding the relationship between money and decimals.

3) Calculating Percents.
   a) Finding a percent of a number
b) Finding what percent one number is of another.
c) Finding the total when a percent is given.

4) Compute sales tax, unit price and sale price.
   I) Solve word problems using the interest, distance, and cost formula.
      a) Interest formula
      b) Distance formula
      c) Cost formula
   II) Calculating net value.
   III) Find the total for an order after calculating the cost of two items and sales tax.
       a) Determining sales tax and purchase when given the rate
   IV) Calculate the difference between hourly and daily wage.
       a) Calculate differences between two hourly wages
       b) Compute overtime pay
       c) Compute deduction based on percent
       d) Compute yearly gross and net pay

5) Solve real word problems using probability
   I) Associate verbal names, written word name, written word name and standard numeral with ratios and proportions.
   II) Understand the relationship between ratio and proportion and fractions.
   III) Solve word problems using ratio and proportion.
       a) Cross multiply to solve proportions

6) Solve algebraic equations.
   I) Writing Algebraic expressions.
       a) Set up and solve algebraic equations from word problems
   II) Constructing a rectangular coordinate system showing positive and negative X and Y values.
   III) Describing a variety of patterns and relationships.
       a) Manipulative
       b) Tables
       c) Graphs

7) Solve one and two-step algebra equations with one variable.
   I) Solving one step equations.
       a) One variable
II) Solving two-step equations.
   a) one variable and two step equations

8) Finding squares and square roots.
   I) Solve equations with the mathematic concepts of square, square roots, and
   order of operations.
   a) Finding squares of numbers.
   b) Finding square roots of perfect squares.
   c) Solving simple problems by applying algebraic order of operations.

9) Solve measurement problems.
   I) Convert between metric units.
   a) Measure using metrics.
   b) Convert within the metric system measures from prefix to another.
   II) Convert U.S. system of measures (yards-feet-inches; cups-pints-gallons).
   a) Solving linear measurement problems with inches, feet, or yards.
   b) Solving capacity problems with cups, pints, quarts or gallons.

10) Find perimeter, area and volume.
    I) Solve geometry problems using area, perimeter, and volume formulas.
    a) Area (square, rectangle, triangles, cubes)
    b) Perimeter
    c) Volume
    d) Circumference (circles)
    II) Solve real-world problems by estimating measurements.
    a) Length
    b) Time
    c) Weight
    d) Temperature
    e) Money

11) Interpret and compared data from a graph and table.
    I) Interpret and compare data.
    a) Collecting, organizing, displaying and analyzing data using bar graphs,
    circle graphs, line graphs, pictographs and charts.
    b) Reading a simple bar graph or line graph.
    c) Interpreting data in charts, tables, plots, graphs, and maps.
    d) Understanding and finding mean, median, and mode.
    e) Locating a point on a highway.
12) Know different types and relationship of angles and triangles.
   I) Angles.
      a) types
      b) degrees
      c) relationships
   
   II) Triangles.
      a) types
      b) degrees
      c) symmetry
      d) congruency
      e) Pythagorean relationship