Dear Family Member,

Your student's math class will soon begin studying the unit entitled "**Numbers**."

This unit addresses important Common Core Standards in the Critical Areas of finding common factors and multiples and understanding rational numbers.

Domain   **6.NS**   The Number System
      Cluster   Compute fluently with multi-digit numbers and find common factors and multiples.

The unit also supports additional standards.

Domain   **6.NS**   The Number System
      Cluster   Apply and extend previous understandings of numbers to the system of rational numbers.

Our study of this unit focuses on the essential questions listed below.

Unit 1: Numbers
Essential Questions • How do you identify an integer and its opposite? • How do you compare and order integers? • How do you find and use absolute value? • How can you find and use the greatest common factor of two whole numbers? • How do you find and use the least common multiple of two numbers? • How can you classify rational numbers? • How do you identify opposites and absolute value of rational numbers? • How do you compare and order rational numbers?

To stay up to date with our progress, ask often about what's happening in math class.

CAREERS IN MATH   One activity you can do together at the beginning of each unit is to discuss the featured career in your student's math book. At the end of the unit you and your student can further explore this career through the Math in Career Activity on the Unit Project page.

There are also many exciting online resources available to you and your student including Math on the Spot video tutorials, Personal Math Trainer, and Animated Math activities.

Thank you for your time and interest. Your participation in your student's education is a sure way to encourage learning!

Sincerely,

Dear Family Member,

Your student's math class will soon begin studying the unit entitled "**Number Operations**."

This unit addresses important Common Core Standards in the Critical Area of fraction and decimal operations.

Domain   6.NS The Number System
  Cluster Apply and extend previous understandings of multiplication and division to divide fractions.

The unit also supports additional standards.

Domain   6.NS The Number System
  Cluster Compute fluently with multi-digit numbers and find common factors and multiples.

Our study of this unit focuses on the essential questions listed below.

Unit 2: Number Operations
Essential Questions • How do you use the GCF and LCM when adding, subtracting, and multiplying fractions? • How do you divide fractions? • How do you divide mixed numbers? • How can you solve word problems involving more than one fraction operation? • How do you divide multi-digit whole numbers? • How do you add and subtract decimals? • How do you multiply decimals? • How do you divide decimals? • How can you solve problems involving multiplication and division of fractions and decimals?

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Sincerely,

Dear Family Member,

Your student's math class will soon begin studying the unit entitled "**Proportionality: Ratios and Rates**."

This unit addresses important Common Core Standards in the Critical Areas of developing understanding of and ability to apply ratio concepts.

Domain   6.RP   Ratios and Proportional Relationships
        Cluster   Understand ratio concepts and use ratio reasoning to solve problems.

Our study of this unit focuses on the essential questions listed below.

Unit 3: Proportionality: Ratios and Rates
Essential Questions   - How do you use ratios to compare two quantities?   - How do you use rates to compare quantities?   - How can you use ratios and rates to make comparisons and predictions?   - How can you represent real-world problems involving ratios and rates with tables and graphs?   - How can you solve problems with proportions?   - How do you convert units within a measurement system?   - How can you use ratios to convert measurements?   - How can you write a ratio as a percent?   - How can you write equivalent percents, fractions, and decimals?   - How do you use percents to solve problems?

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Sincerely,

Dear Family Member,

Your student's math class will soon begin studying the unit entitled "**Equivalent Expressions**."

This unit addresses important Common Core Standards in the Critical Areas of understanding algebraic expressions and solving equations and inequalities.

Domain   6.EE   Expressions and Equations
    Cluster   Apply and extend previous understandings of arithmetic to algebraic expressions.

The unit also supports additional standards.

Domain   6.EE   Expressions and Equations
    Cluster   Reason about and solve one-variable equations and inequalities.

Our study of this unit focuses on the essential questions listed below.

Unit 4: Equivalent Expressions
Essential Questions   - How do you use exponents to represent numbers?   - How do you write the prime factorization of a number?   - How do you use the order of operations to evaluate expressions with exponents?   - How can you model and write algebraic expressions?   - How can you use the order of operations to evaluate algebraic expressions?   - How can you identify and write equivalent expressions?

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Sincerely,

Dear Family Member,

Your student's math class will soon begin studying the unit entitled **"Equations and Inequalities."**

This unit addresses important Common Core Standards in the Critical Areas of solving equations and inequalities and understanding relationships in two variables.

Domain   6.EE   Expressions and Equations
        Cluster   Reason about and solve one-variable equations and inequalities.

The unit also supports additional standards.

Domain   6.NS   The Number System
        Cluster   Apply and extend previous understandings of numbers to the system of rational numbers.

Our study of this unit focuses on the essential questions listed below.

Unit 5: Equations and Inequalities
Essential Questions   • How do you write equations and determine whether a number is a solution of an equation?   • How do you solve equations that contain addition or subtraction?   • How do you solve equations that contain multiplication or division?   • How can you use inequalities to represent real-world constraints or conditions?   • How do you locate and name points in the coordinate plane?   • How can you identify independent and dependent quantities from tables and graphs?   • How can you use an equation to show a relationship between two variables?   • How can you use verbal descriptions, tables, and graphs to represent algebraic relationships?

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Sincerely,

Dear Family Member,

Your student's math class will soon begin studying the unit entitled "**Relationships in Geometry**."

This unit addresses important Common Core Standards in the Critical Areas of finding area, surface area, and volumes and finding distance and area in the coordinate plane.

Domain   6.G   Geometry
          Cluster   Solve real-world and mathematical problems involving area, surface area, and volume.

The unit also supports additional standards.

Domain   6.NS   The Number System
          Cluster   Apply and extend previous understandings of numbers to the system of rational numbers.

Our study of this unit focuses on the essential questions listed below.

Unit 6: Relationships in Geometry
Essential Questions
- How can you find the areas of parallelograms, rhombuses, and trapezoids?   - How do you find the area of a triangle?   - How do you use equations to solve problems about area of rectangles, parallelograms, trapezoids, and triangles?   - How can you find the area of a polygon by breaking it into simpler shapes?   - How can you use absolute value to find the distance between two points with the same *x*- or *y*-coordinates?   - How can you solve problems by drawing polygons in the coordinate plane?   - How can you use nets to find surface areas?   - How do you find the volume of a rectangular prism?   - How do you write equations to solve problems involving the volume of rectangular prisms?

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Sincerely,

Dear Family Member,

Your student's math class will soon begin studying the unit entitled "**Measurement and Data**."

This unit addresses important Common Core Standards in the Critical Areas of displaying, analyzing, and summarizing data.

Domain   6.SP   Statistics and Probability
         Cluster   Develop understanding of statistical variability.

The unit also supports additional standards.

Domain   6.SP   Statistics and Probability
         Cluster   Summarize and describe distributions.

Our study of this unit focuses on the essential questions listed below.

Unit 7: Measurement and Data
Essential Questions   • How can you use measures of center to describe a data set?   • How can you determine and use the mean absolute deviation of a set of data points?   • How can you use a box plot and measures of spread to describe a data set?   • How can you summarize and display numeric data?   • How can you display data in a histogram?

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