Summer Math Activities: Rising 7th Grade
7th Grade Pre Algebra and Algebra 1

Prevent the summer math slump by practicing skills and using math every day! Complete at least 8 of the activities below, or challenge yourself do them all! When you finish an activity, write the date in the square.

M	A	T	H
Practice **Prime Factorization** for 15 minutes on IXL. Please note skill numbers below.	Skittles or M&M Math: Create a bar graph to show how many of each color. THEN, write a fraction for each color (ex, 3/10 Blue means that 3 out of 10 total are blue).	Measure the Area and Perimeter of your bed and write measurements below. Area: _____ Perimeter: _____	Increase a recipe by triple and make it. Attach the recipe and math What did you make? _____
Find Math in the news! Find and attach an article from a newspaper or magazine that relates to math in the real world.	Do a Sudoku puzzle. Attach completed puzzle to this sheet.	Practice **Adding and Subtracting Fractions with Unlike Denominators** on IXL. Please note skill number below.	Practice **Dividing Fractions** for 15 minutes on IXL. Please note skill number below.
Do a jigsaw puzzle with over 700 pieces. Attach a photo.	Baseball Math: Compare 5-10 players' stats. Calculate the mean, median, and mode for homeruns, runs batted in, and strikeouts	Practice **Converting between percents, fractions, and decimals** for 15 minutes on IXL. Please note skill numbers below.	Record the high temperature for a week. Create a line graph to show daily high temperatures and calculate the mean, median, and mode for the week.
Halve a recipe and make it. Attach the recipe and math. What did you make? _____	Practice **Solving Proportions** for 15 minutes on IXL. Please note skill numbers below.	Do 3 logic puzzles or brain teasers. (see http://brainden.com/logic-puzzles.htm or https://www.logic-puzzles.org/). Attach your completed puzzles.	Practice **Adding and subtracting integers** for 15 minutes on IXL. Please note skill numbers below.

You may use IXL to practice these skills if you are entering **7th grade PreAlgebra:**
- Multiply whole numbers

- Divisibility Rules
- Divide whole numbers
- Prime Factorization
- Prime Factorization
- Least common multiple
- Greatest common factor
- Add and subtract decimal numbers
- Add and subtract fractions with unlike denominators
- Multiply mixed numbers
- Divide fractions
- Add and subtract integers
- Multiply integers
- Divide integers
- Evaluate Numerical Expressions
- Unit Rates
- Solve Proportions
- Convert between percents, fractions and decimals
- Graph points on a coordinate plane
- Solve two-step equations
- Area of quadrilaterals
- Calculate mean, median, mode and range
- Probability of dependent and independent events

You may use IXL to practice these skills if you are entering **7th grade Alg. 1:**
- Factors
- Prime Factorization
- Greatest Common Factor
- Add or Subtract 3 or more Integers
- Multiply and Divide Integers
- Least Common Denominator
- Reciprocals and Multiplicative Inverses
- Evaluating Exponents
- Solve Proportions
- Coordinate Plane Review
- Area and Perimeter Word Problems
- Evaluate Multi-Step Variable Expressions
- Solve Two-Step Equations
- Find the Slope of a Graph
- Find Slope of a Line
- Write a Linear Equation from Point Slope
- Write a Linear Equation from Two Points
- Solve Equations: Word Problems
- Identify Functions
- Identify Independent and Dependent Variable
- Constant Rate of Change