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Summer Bridges: Incoming Grade 8 Math Choice Board

This summer, your child can continue building a strong foundation in mathematics by completing a Math Choice Board that also celebrates America's 250th birthday! He or she will also have the opportunity to earn ten extra credit points on the first math test of the 2026-2027 school year.

All completed choice board activities are due to your child's math teacher on Thursday, September 10, 2026.

Directions: Complete any **three** boxes **in a row** (horizontally, vertically, or diagonally). Be sure to keep all of your work to hand in to your new math teacher in September.

<p>Red, White, and Blue Spinner</p> <p>Draw a circle divided into equal 6 sections. Color 3 sections red, 2 white, 1 blue. Flick a paperclip 30 times and record results. Write your experimental probability as well as the theoretical probability for each color as a fraction, decimal, and percent.</p>	<p>Patriotic Party Supplies</p> <p>Create tables for 3 different patriotic party supplies. Each table should show the cost of 2, 5, 8, and 15 of each item. Only one table should represent a proportional relationship. Use unit rates to explain how you know which relationship is proportional. Then, graph of the proportional relationship.</p>	<p>Picnic Inequalities</p> <p>You have a \$50 budget for a picnic. You already spent \$12 on a flag. If hot dog packs cost \$5 each, how many packs can you buy without going over budget? Write an inequality and solve an inequality. Graph the possible number of packs on a number line.</p>
<p>Patriotic Recipe</p> <p>A berry shortcake recipe serves 4 people using 6 strawberries, 1.5 cups of whipped cream, and 14 blueberries. Your BBQ has 20 people attending. Find the unit rate for each ingredient. Then, rescale the recipe to serve 20 people.</p>	<p>Star-Spangled Sales</p> <p>Imagine you are selling American flags for \$12 each. You earn a 15% commission on every sale. If you sell 8 flags in one week, how much commission do you make? If you also make a base salary of \$50 per week, what would your total earnings be? Show all work.</p>	<p>The 1776 Equation</p> <p>Create at least 5 different multi-step equations where the answer is 1,776. Use positive and negative rational numbers. Solve each equation, showing all work.</p>
<p>Betsy Ross Flag</p> <p>The 13-star circle on the original Betsy Ross flag had a circumference of approximately 4.71 feet. Find the radius, diameter, and area of the circle. Use 3.14 for pi.</p>	<p>Liberty Garden</p> <p>Design a patriotic garden in the shape of a composite figure (use at least 3 different shapes). Use a ruler to label all dimensions. Calculate the total area and perimeter.</p>	<p>All American Data</p> <p>Develop a statistical question (ex. "How many blue shirts do you own?"). Ask at least 8 people. Find the mean, median, and mean absolute deviation of your data.</p>