



Math 6 Summer Work

Below are a list of activities for you to complete over the summer. Pick 5 activities that you would like to complete. **You do not need to complete all of the activities, you only need to complete 5.** Each activity specifically states what should be turned in when you return to school. All assignments will be due during the first week of classes. You will be responsible for presenting your summer work to your peers. Please use the left column to “check off” which activities you complete.

	<p>While eating out at a restaurant this summer, calculate the tip for your meal. Talk with the adult you're with about what percentage to use. Don't use a calculator!</p> <p><i>Turn in:</i> a copy / photo of the receipt with the tip you gave, along with any work that you completed</p> <p>(Percentages)</p>
	<p>Go out for a walk, jog, run, etc. Record the time and distance of your activity. How far would you have gone if you had continued for twice as long? How long would you have to do the activity to go half as far? Write your responses in 2-3 sentences.</p> <p><i>Turn in:</i> your time, your responses to the questions</p> <p>(Rates)</p>
	<p>Create a mathematical expression that includes 2 of the 4 basic operations (ex: $4 + 8 \div 2$). Then, write a story that could be represented by the expression you have created. Be sure that the result of your story matches the result of your expression, so pay attention to order of operations! You may use parentheses if necessary.</p> <p><i>Turn in:</i> your story with the expression written at the top</p> <p>(Expressions, Equations, & Application)</p>
	<p>Collect and count the number of pieces of mail you get at your household each day for a 10-day period. What is the mean, median, mode, and range of your set of data?</p> <p><i>Turn in:</i> your data and your data analysis</p> <p>(Data Analysis)</p>
	<p>Find a recipe that includes at least 4 ingredients. Decide how much of each ingredient you would need in order to make a double batch. Write out your calculations, then get cooking!</p>



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	<p><i>Turn in:</i> your original recipe and the recipe with adjusted measurements, and a picture of the food you made</p> <p>(Ratios)</p>
	<p>Keep track of how you spend your time for an average weekday of the summer. Make a table that explains how much time you spent doing activities during the day (you need at least 4 categories). Then answer the questions below.</p> <p>What did you spend most of your time doing? If you cut your time on that activity in half, what do you think you would do instead?</p> <p><i>Turn in:</i> your time table & your response to the questions</p> <p>(Data Analysis & Representation)</p>
	<p>Complete 2 logic puzzles with members of your family. Some can be found here. <i>Turn in:</i> printouts of the completed logic puzzles</p> <p>(Logic, Problem Solving)</p>
	<p>Write about your favorite moment in math that you've ever had. It can be at school, a summer camp, or just real life.</p> <p><i>Turn in:</i> a 5-8 sentence paragraph</p> <p>(Self-Reflection)</p>
	<p>On a summer drive or walk, take pictures of at least 8 rectangles and 5 circles that you see.</p> <p><i>Turn in:</i> these pictures, along with descriptions of what they are and where you found them</p> <p>(Geometric Shapes)</p>
	<p>Buy a bag of Skittles, M&M's, or a similar candy or food item. Count how many there are of each color, as well as the total number of pieces in the bag. Then, determine what color you would be most likely to pull out of the bag if you did so with your eyes closed and why. Do the same for the least likely to be pulled.</p> <p><i>Turn in:</i> Your counts, and your explanation for the likelihood of pulling out certain colors</p>



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	(Probability)
	Use this website to create 3 different tessellations. Each tessellation should be unique! Describe what sort of shapes you have used to create your tessellation in a 1-sentence summary for each. <i>Turn in:</i> printouts or screenshots of your tessellations along with your descriptions (Geometric Figures / Art)
	Identify 5 ways in which you used or encountered fractions over the summer. Write a sentence for each. <i>Turn in:</i> your sentences
	On a shopping trip, give yourself an imaginary budget of \$50 (before tax). Determine three different combinations of items that you could buy with that budget. Only one item can repeat from list to list! <i>Turn in:</i> your three different combinations of items, including brief descriptions of what you bought and the prices of each item (Budgeting)

I, _____ have completed my 5 assignments to the best of my ability.

Student Signature

Date

Parent Signature

Date