








September Math Problem Solving Projects

Name:

Due Date:

<p>★ September is "Health Awareness Month" and Tracey measured her pulse and found that her heart beat was at a rate of 80 beats a minute. At this rate, how many days will it take her heart to beat 1,000,000 times? Explain your work and be sure you explain each step.</p> 	<p>★ Johnny Appleseed was born in September and in his honor you decide to plant a tree. You have a garden in the shape of a rectangle. You want to plant a tree in a specific spot. You want it to be in the exact center of the garden. What would be a way that you could find the center without using any measurement? Explain all your reasoning.</p>	<p>★ In 1830 on September 1st, "Mary Had A Little Lamb" was published. Use the beat of "Mary Had A Little Lamb" to write a parody of the song explaining the concept of turning fractions to decimals and decimals to percents.</p> 
<p>★ For Grandparent's Day you decide to take your grandfather to breakfast in an old fashioned cab, so you find a cab that charges \$3.00 for the first mile and \$1.80 for each additional mile. How far can you take your grandfather for breakfast for \$40 if you also give the driver a \$2 tip? Show your work.</p> 	<p>★ You decided to take a job afterschool this year. However, you've been offered two different jobs, compare the different pay scales for each job. Decide if it is better to receive \$300 a week or to be paid hourly at a rate of \$7.50 per hour. What factors could affect your decision? Show your work.</p> 	<p>★ Momma bats birth the baby bats every September. To prepare for birth they hunt dragonflies. A bat ate 1050 dragon flies on four consecutive nights. Each night she ate 25 more than on the night before. How many did she eat each night? Solve this algebraically. Show your work.</p> 
<p>★ Positive Thinking Day is every September. What is the largest three digit number that has both vertical and horizontal symmetry? Think of a three letter word with horizontal symmetry. Think positively, you can do it!</p> 	<p>★ Your family decides to go camping to celebrate Labor Day on an island close to the coast. Groups of campers were going to the same island. On the first day 20 went over and 4 came back. On the second day, 24 went over and 6 came back. If this pattern continues, how many would be on the island at the end of a week? How many would be left? Show your work.</p>	<p>★ Fall is a beautiful time for the leaves on trees to turn colors. A team of scientists found that there were 8 oak trees for every 20 pine trees. How many oak trees were there if they counted 72 more pine than oak? Explain and show your work.</p> 

Complete three projects in tic tac toe order.