

THE STORY

The principal of the McTavish School, decided the school should have a bake sale. The principal assigned five teachers named Albert, Arlene, Alice, Arthur and Aleshia, whose last names were Stickley, Putman, Bolton, Walker and Bower, to conduct the bake sale. At a meeting, the teachers decided that each one of them would be responsible for bringing a different kind of baked good. These baked goods were cookies, cupcakes, brownies, sweet rolls and donuts. The teachers taught five different grade levels: 4th grade, 5th grade, 6th grade, 7th grade and 8th grade. The bake sale was held and each class raised a different amount for the operating fund. They raised \$35, \$50, \$60, \$63 and \$100. Based on the clues, match the teachers' first names with their last names, the baked goods, the grades they taught, and the amounts of money they raised.

THE CLUES

1. Albert and Arlene were not Bolton, Putman or Stickley, Walker's 5th graders raised more selling cookies than Arthur and Albert's classes, but less than Alice and Aleshia's classes.
2. The 4th graders selling sweet rolls raised twice as much as the 6th graders selling cupcakes.
3. Arthur was not Stickley or Bolton and he did not teach 6th grade.
4. Alice was not Bolton and she did not teach the lowest grade.
5. The 7th graders sold brownies, and Putman's class sold donuts.

	Albert	Arlene	Alice	Arthur	Aleshia
Stickley					
Putman					
Bolton					
Walker					
Bower					
Cookies					
Cupcakes					
Brownies					
Sweet rolls					
Donuts					
4th grade					
5th grade					
6th grade					
7th grade					
8th grade					
\$35					
\$50					
\$60					
\$63					
\$100					

Choose three of the following activities to complete this summer for math. It must be three in a row, column, or diagonal. Due the first Friday of school.

<p>Logic Puzzle (on page 2)</p> <p>The Bake Sale</p>	<p>Cryptogram (page 3)</p> <p>Religious Easter Cryptogram</p>	<p>You get a summer job that pays \$16.05 per hour. You are looking forward to your first paycheck, but you have been warned about deductions.</p> <ul style="list-style-type: none"> ● Federal Income tax 11.6% ● FICA 5.2% ● Medicare 1.75% ● State tax 6% ● Local tax 0.2% ● <p>If you work 20 hours per week, and you get paid every two weeks, how much is your first paycheck? How much will you earn in the seven weeks you work over the summer?</p>
<p>You are an amazing and unique person. It's time to share about yourself with your new classmates. But there's a twist. . . you must incorporate math in your description. In this activity, you'll be using your math skills to create riddles that reveal fun facts about yourself, making it an awesome way to get to know your classmates through the world of numbers and puzzles.</p> <p>Think about interesting facts from your life that you'd like to share – maybe it's how many family members you have, your birthday month, or the number of trips you've taken. Now, turn these facts into math riddles. Challenge yourself to create questions that require a bit of math to solve, adding an extra layer of intrigue.</p>	<p>Once each month, log into IXL.com and complete your diagnostic. Go to assessment, then scroll down to enter the arena. After completing the diagnostic, work on 2-3 or your recommended skills. You must receive a score of at least 90 on these skills.</p> <p>Do this a minimum of three times, once in June, July, and August. Record the dates of your diagnostic and the recommended skills you worked on. (on back of this paper)</p>	<p>Pi Day Pie Problems: Use 3.14 for pi.</p> <p>*A pumpkin pie costs \$12.55 at Bobby's Bakery. If the pie has a diameter of 12 inches, what is the cost per square inch of the pie?</p> <p>*Pam served her apple pie on a 13 inch diameter dish. She wanted to tie a ribbon around the dish to make it a little more festive. How long does the ribbon need to be in order to fit around the dish?</p> <p>*How many square inches of crust would it take to cover the bottom of a pie dish with a 15 inch diameter?</p> <p>*Becca wants to bake a giant cherry pie to try to break the world record. If she succeeds in making a pie with a 20 foot diameter, what will be the total distance around the pie?</p> <p>*Chris ate $\frac{1}{6}$ of a cream pie with a 14 in. diameter. What is the area of the remaining portion of the pie?</p>
<p>Nancy gets her favorite shade of purple paint by mixing $\frac{1}{3}$ cup of blue paint with $\frac{1}{2}$ cup of red paint. How many cups of blue and red paint does Jessica need to make 20 cups of her favorite purple paint?</p> <p>She is going to paint her bedroom which measures 10' x 12'. The walls are 8' tall. How many gallons of purple paint will she need? A gallon of paint will cover an area of 400 square feet.</p>	<p>Research one of the following mathematicians and give a brief bio of this person, especially their math contribution to the world. One page minimum, double spaced document, correct grammar and complete sentences.</p> <p>Suggestions: Pythagoras, Euclid, Leonard Euler, Carl Friedrich Gauss, Georg Cantor Srinivasa Ramanujan, Muhammaad ibn Musa al-Khwarizmi, David Hilbert, Pierre de Fermat, or Rene Descartes.</p>	<p>After dinner, three friends at a restaurant paid their bill and noticed a bowl of mints on the front counter. Sean took one-third of the mints but returned four because he had a momentary pang of guilt. Faizah then took one-fourth of what was left but returned three for similar reasons. Eugene then took half of the remainder but threw two green ones back into the bowl. The bowl had only 17 mints left when the raid was over. How many mints were originally in the bowl?</p>

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