

Math Challenge #6



First Name: _____	Last Name: _____	Grade: _____
Teacher: _____	Parent's email: _____	

All that sweets

Welcome to the Math Challenge #6. 'Tis the season to bake *all* the sweets. Cookies, cakes, pies, cheesecakes...you name it, people turn to baking during the holidays. In this Math Challenge, you would solve problems involving some of these yummy treats. Enjoy.

Kinder & First Grade: solve at least 3 problems.
Second & Third Grade: solve at least 7 problems.
Fourth Grade and above: solve at least 12 problems.

Answer

<p>1. There was a plate on the table that contained only cookies and brownies. There were 2 chocolate chips cookies, 3 oatmeal cookies, and dark chocolate brownies. If there were 8 items on the plate, how many brownies were on the plate?</p>	
<p>2. There are chocolate chip cookies, peanut butter cookies, and oatmeal cookies on a tray. Dana can pick 2 cookies from the tray. How many two-cookies combinations can she pick from the tray? Hint: make an organized list.</p>	
<p>3. Each cookie is \$1 and each brownie is \$2. Liza bought one cookie and two brownies. How much did she have to pay?</p> <div style="text-align: center;">  </div>	
<p>4. At the same store where Liza bought the cookie and brownies, Sasha bought 10 cookies and 10 brownies. How much did he have to pay?</p>	
<p>5. The baker broke each of the cookies in half. She counted 6 broken halves. How many whole cookies did the baker start with?</p>	
<p>6. Tony baked cookies, cupcakes, and lemon bars for the baking sale at his school. She made 30 chocolate chips cookies, 26 oatmeal cookies, 24 chocolate cupcakes, and 22 vanilla cupcakes. If the total number of baked goods is 120, how many lemon bars did Tony bake?</p>	

7. The Girl Scouts are having their annual cookie sale. Emily sells 5 boxes of cookies each day. After 7 days, Emily still has 18 boxes left to sell. How many boxes of cookies did Emily have at first?



8. All day, Jeremy and Sarah baked cookies and cupcakes for the baking sale at their school. They made 3 dozen chocolate chips cookies and 2 dozen oatmeal cookies. If the total number of baked goods is three times the number of cookies, how many cupcakes did Jeremy and Sarah bake?

9. The Bakery has 4 separate large boxes, and inside each large box there are three separate small boxes, and inside each of these small boxes there are 2 separate smaller boxes filled with small cookies. How many boxes, counting all sizes, are there all together? Hint: Make an organized list or draw it out.

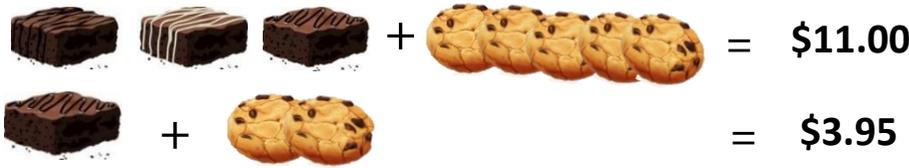
10. Kathy had fun baking lots of gingerbread cookies. She left them on a plate to cool while she went shopping with her dad. Her brother saw the gingerbread cookies and took $\frac{1}{2}$ of them to his Scout meeting. Her sister took $\frac{2}{3}$ of the remaining cookies to share with her friends. Finally, her mom took $\frac{1}{2}$ of the remaining cookies to her Book Club meeting. When Kathy and her dad got home, there were only 5 cookies left on the plate. How many gingerbread cookies had Kathy baked?
Hint: work backward



11. At a snack stand, a cookie and a rice crispy treat cost \$2.50, a rice crispy treat and a brownie cost \$2.80, and a brownie and a cookie cost \$3.00. Alex paid with a \$5 bill to buy a cookie, a rice crispy treat, and a brownie. How much change will he get from the cashier?

12. Cameron has a large jar of cookies and he wants to share them with his friends. He brings half of what he has to his art club meeting. He then gives half of what's left to his buddy, Jayden. Next, he gives half of what's left to Laina. His mom makes him give 5 cookies to his sister. He now has 10 cookies left. How many cookies did he start with?
Hint: work backward



<p>13. Jack baked $5\frac{1}{4}$ dozen peanut butter cookies and $4\frac{5}{6}$ dozen oatmeal cookies for a bake sale. Find the actual number of cookies he baked.</p>	
<p>14. Lindsey has 48 chocolate chip cookies to put in bags for the bake sale. How many different numbers of bags can she fill if she puts the same number of cookies and she packs all of them? She puts at least 2 cookies in each bag. Hint: find all possibilities.</p>	
<p>15. Mr. Bianchi ate 100 cookies in 5 days. Each day he ate 6 more than the day before. How many cookies did he eat on the first day?</p>	
<p>16. For a bake sale, Ron baked 48 chocolate chip cookies and 64 oatmeal cookies. He would like to package them in bags. He plans to use all the cookies and wants to include an equal number of chocolate chip cookies and an equal number of oatmeal cookies in each bag. What is the largest number of bags he can make with an equal number of chocolate chip cookies and an equal number of oatmeal cookies in each bag?</p>	
<p>17. Anita, Quentin, and Maria are baking cookies together. They need $\frac{3}{4}$ cup of flour and $\frac{1}{3}$ cup of butter to make a dozen cookies. They each brought the ingredients they had at home. Anita brought 2 cups of flour and $\frac{1}{4}$ cup of butter, Quentin brought 1 cup of flour and $\frac{1}{2}$ cup of butter, and Maria brought $1\frac{1}{4}$ cups of flour and $\frac{3}{4}$ cup of butter. If the students have plenty of the other ingredients they need (sugar, salt, baking soda, etc.), how many whole batches of a dozen cookies can they make?</p>	
<p>18. At a bake sale, a student spent \$11.00 buying 3 brownies and 5 cookies. His friend spent \$3.95 buying 1 brownie and 2 cookies. What is the price of a brownie?</p> 	

Solution is available on January 8th, 2021 at www.mathinaction.org