



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

Money

Math Challenge #13 focuses on problem solving skills that deal with money. Many students are familiar with money since a young age, maybe through an allowance or having a lemonade stand. Working on math problems that involve money is fun, as it engages students with real world problems and applications of math skills. The math problems in this challenge can be solved by drawing a model, acting it out, working backward, or creating equations. Students, try to solve as many problems as you can, and if you are stuck, don't forget to ask for help.

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.

	<i>Answer</i>
1. Orion has \$3. Nishant has \$3 more than Orion. Ian has \$3 less than Nishant. How much money do they have in total?	
2. At first, Tina has \$8, and Mike has \$1. Tina then gives Mike \$2. How much more money does Tina have than Mike now?	
3. Jeremy has a Mysterious Money Machine that will double any amount of money placed in it and add \$1 to the doubled amount. How much money will he get from placing a five-dollar bill in the machine?	
4. Four identical binders cost a total of \$8. How much would three of the identical binders cost?	
5. Steve was offered a job at the nearby golf course. The owner offered him the following. Offer 1: \$500.00 per seven-day week. Offer 2: \$5 for the first day and agreed to double the previous day's amount for each following day. Which offer would make Steve the most amount of money in a week?	
6. The original price of the glitter ball is \$11.00. It is on sale today for half-off. What is the sale price?	

<p>7. A camera and case together cost \$100. If the camera costs \$80 more than the case, how much does the case cost?</p>	
<p>8. Tammy borrowed and used Jeremy's Mysterious Money Machine, which double any amount of money placed in it and add \$1 to the doubled amount. Tammy placed a certain amount of money in the machine, then she placed the new amount back in the machine. Then she had \$51. How much money did Tammy place in the machine at first?</p>	
<p>9. Which option provides a lower cost per pound of grapes? Option 1: 4 pounds of grapes for \$1.69 a pound, or Option 2: 5 pounds of grapes for a total of \$7.75</p>	
<p>10. If I donate a third of my money to charity and a quarter of what's left after donating to you, I am left with \$45.00. How much did I originally have?</p>	
<p>11. To the nearest year, how long would it take you to spend \$1,000,000 if you spend \$50 a day?</p>	
<p>12. Suppose Anjali, Frank, and Diane are in a band which makes \$1,800,000 selling song downloads. If Diane gets twice as much money as Anjali, but only one third as much as Frank, how much money do Anjali and Diane make together?</p>	
<p>13. Paula began with \$120 more than Fred. She spent $\frac{7}{8}$ of her money to purchase a computer monitor which cost \$280, Fred spent $\frac{1}{4}$ of his money on a watch. How much money did Fred have left after buying the watch?</p>	
<p>14. Donna and Dylan are twins. They have been saving money from their allowances. The ratio of Donna's saving to Dylan's saving is 5 to 7. If Dylan has \$250 more than Donna, what is the total amount of their savings altogether?</p>	

<p>15. Josh and Lokey had \$73 in total. They each then spent \$5. Josh now has 25% more than Lokey. How much more money did Josh have than Lokey at the beginning?</p>	
<p>16. Camilla has a jar of coins containing only nickels, dimes, and quarters. A nickel is worth 5 cents, a dime is worth 10 cents, and a quarter is worth 25 cents. The ratio of the number of quarters to the number of dimes to the number of nickels in the jar is 9 : 3 : 1. The total value of all the coins in the jar is \$13.00. How many coins does Camilla have in her jar?</p>	
<p>17. There were 400 chickens and ducks in total at the Kilstrom Farm. Three-fourths of the chickens and one-third of the ducks are then sold at the market, leaving a total of 125 chickens and ducks combined. If the selling price of a chicken is \$3.50, how much money was generated from selling the chickens at the market?</p>	
<p>18. Jared and Cassidy go to the local cafe. They both want to buy the breakfast sandwich deal. Jared has three-fourths of the money needed to buy the breakfast sandwich deal and Cassidy has half of the money needed to buy the breakfast sandwich deal. If this sandwich deal was \$3 cheaper, then together they would have exactly enough money to buy two of the breakfast sandwich deals. What is the original price of the breakfast sandwich deal?</p>	

Solution is available on April 21, 2023
www.mathinaction.org