Math Challenge #7

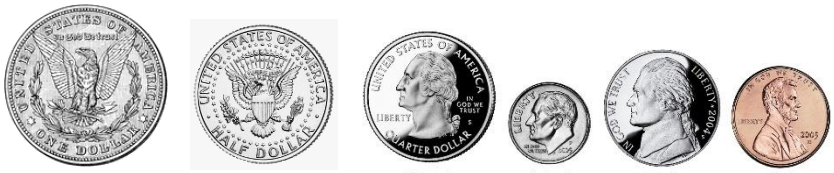
First Name: _____ **Last Name:** _____ **Grade:** _____

Teacher: _____ **Parent's email:** _____

Coins

In this challenge, you would be working with coins. in the American currency system, we have coins in denominations of 1¢, 5¢, 10¢, 25¢, 50¢, and $1.00.

Get your coins out if you have to, and don't forget to ask for help.



$1.00 | **50¢** a half-dollar | **25¢** a quarter | **10¢** a dime | **5¢** a nickel | **1¢** a penny

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

		Answer
1.	Surya has **two identical coins** that worth 10 cents. What type of coins does Surya have? 	
2.	Tarek has **two different coins**, and they add up to 11 cents. What are the coins? ◯ + ◯ = **11¢**	
3.	a. Susan has **three different coins**, and they add up to 31 cents. What are her coins? ◯ + ◯ + ◯ = **31¢** b. Conrad also **has three different coins**, but they add up to 36 cents. What are his coins? ◯ + ◯ + ◯ = **36¢**	
4.	Dominic has three different coins too, but they add up to 61 cents. What are his coins? ◯ + ◯ + ◯ = **61¢**	
5.	Miriya has six coins and they are either dimes or nickels. The number of nickels is twice the number of dimes. What is the value of Miriya's six coins?	
6.	Jeremy bought a bubblegum that cost 55¢ and paid for it with exactly 4 coins. What are the four coins?	

7.	Christina has six coins. She has quarters, dimes, and pennies. She has more quarters than pennies. She has more dimes than quarters. How much money does she have altogether?	
8.	Edna exchanged three one-dollar bills for nickels and dimes. She received the same number of nickels as dimes. How many coins did she receive?	
9.	Jack has 6 more nickels than Maya has. After he gives 10 nickels to Maya, how much more money will Maya have than Jack?	
10.	Pariza spent 3 quarters on two pieces of candy. One of the candies cost 35¢ more than the other. How much each piece of candy costs?	
11.	A group of students contributed $1.21 toward purchasing special ribbon for a class project. Each student paid his or her share with the same two coins. How many total pennies were contributed?	
12.	Kuzey has $5.24 in his coin bank. After he sorted all the coins by type, he noticed that he has only four types of coins and each type has the same number of coins. Which four type of coins does he have and how many of each coin?	
13.	A total of thirteen pennies is put into three piles so that each pile has a different number of pennies. Dion found several ways to do this. What is the fewest possible number of pennies in the largest pile of any of the possible combinations?	
14.	Kathleen bought candy canes that were on sale: 4 for 50 cents. She then sold them at school at 3 for 50 cents. How many candy canes did Kathleen sell if she made a profit of $5.00?	

15.	Lorenzo had $6.00 that were exchanged for nickels and dimes. The number of nickels was the same as the number of dimes. How many nickels were there in the change?	
16.	Angela had a nickel, a dime, a quarter, a half-dollar, and a silver dollar. After she lost one of the coins, she had exactly seven times as much money as her little sister had. Which coin did Angela lose?	
17.	Raina, Sylvia, Tim, and Veronika each have $1.85 in quarters and dimes. No two have the same number of coins. Together, how many quarters do they have?	
18.	Inside Kevin's pocket, there were 4 pennies, 2 nickels, 1 dime, and 1 quarter. Different values can be made by taking out **one or more coins** from his pocket. How many different values can be made?	

Solution is available on Jan 22, 2021 at www.mathinaction.org