$\qquad$
$\qquad$ Date: $\qquad$
Writing Decimals as Money

Have you ever used a coin machine? Or maybe you have a piggy bank or a jar of coins at home!
There are machines that can count and sort the coins, and then they give you a slip of paper telling you how much money all of those coins are worth!


You get to take the receipt and cash it in for bills. Instead of having a bunch of coins in your pocket, you have the money in dollars and cents.


What is a cent anyway?(in your own words) $\qquad$
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Math 4

Complete the following chart. Write the word form and standard form for each number shown by the money. For example, Word form one dollar and no cents Standard Form 1.00


STANDARD FORM

WORD FORM $\qquad$

STANDARD FORM

WORD FORM $\qquad$

STANDARD FORM
$\qquad$ Period: $\qquad$ Date:

## Writing Decimals as Money

1. Do you know why pennies are called cents?
2. What coin is equal to 10 pennies?
3. How much money do you have if you have 100 pennies?
4. Complete the chart below to show how to write the value of quarters.

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Today you will pretend that you are a coin machine. You must count the coins and write a receipt in standard decimal form.

You will work with a partner and take turns.

- Partner A grabs some coins - (a handful at random) and counts up the coins.
- Partner A then writes the amount in decimal form and hands it to Partner B.
- Partner B, must check the receipt and count to make sure that it is correct.
- Now "cash in" the receipt and use fake money to show the value of the receipt, using dollars and cents.
- Record your decimal numbers on the worksheet


## Example:

| RANDOM COINS - GRAB AND COUNT | CHECK THE RECEIPT - CASH IT OUT |
| :---: | :---: |
| Student A - Grab Coins 45 pennies, 2 dimes and 4 quarters <br> Write the Value of coins as a Fraction out of 100: $165 / 100$ <br> Write the Decimal Value= (show work) <br> $45,55,65$, plus $100=165$ cents $=\$ 1.65$ Or $\$ 0.45+\$ 0.20+1.00=\$ 1.65$ | Student B - <br> Decimal value $=$ Check the count \$1.65 <br> Bills and coins you used to pay <br> 1 dollar bill, 2 quarters, a dime and a nickel $\$ 1.65$ |

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Writing Decimals as Money Student B $\qquad$

| RANDOM COINS - GRAB AND COUNT | CHECK THE RECEIPT - CASH IT OUT |
| :---: | :---: |
| Student A - Grab Coins <br> How many cents? <br> Fraction out of $100=$ <br> Write the Decimal Value= (Show work) | Student B - <br> Decimal value $=($ Check the count $)$ <br> Bills and coins you used to pay |
| Student B- Grab Coins <br> How many cents? <br> Fraction out of $100=$ <br> Write the Decimal Value= (Show work) | Student A- <br> Decimal value $=($ Check the count $)$ <br> Bills and coins you used to pay |
| Student A - Grab Coins <br> How many cents? <br> Fraction out of $100=$ <br> Write the Decimal Value= (Show work) | Student B - <br> Decimal value $=($ Check the count $)$ <br> Bills and coins you used to pay |
| Student B- Grab Coins <br> How many cents? <br> Fraction out of $100=$ <br> Write the Decimal Value= (Show work) | Student A- <br> Decimal value $=($ Check the count $)$ <br> Bills and coins you used to pay |

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Questions and Reflection:

1. What was the largest handful of coins that you grabbed? What was its value?
2. Did you want to grab a large handful of coins?
3. Was it easier to count after you knew the "receipt" amount?
4. How did you decide what to give your partner when they "cashed in" their receipt?
5. Would it be easier to add receipts or just add piles of coins?
6. Write the decimal number for 2 and a quarter dollars
7. Write the decimal number for 7 quarters.
8. Write the decimal number for 5 dimes, 3 quarters and 7 pennies.
