Name:	Period:	Date:
Writing Decimals as Money		Math 4

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)\_\_\_\_\_

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

FAUSTREAM DESCRIPTION	WORD FORM	
FA 45494731 A Contraction of the second of	STANDARD FORM	
REIN BUILDER BILL AND	WORD FORM	
TEX HOLIANES TEX HOLIANES TEX HOLIANES TEX HOLIANES TEX HOLIANES TEX HOLIANES TEX HOLIANES	STANDARD FORM	
THE UNITED STATES OF AN ERICA WITH WATER WATER	WORD FORM	
F 37239722C	STANDARD FORM	
EE CAR	WORD FORM	
HIGGO IV TRUST 2017	STANDARD FORM	
CON WE TOOD	WORD FORM	
LIGERTY 2020	STANDARD FORM	

- 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.

QUARTERS	HOW MANY DIMES AND PENNIES	FRACTION x/100	DECIMAL AS MONEY

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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.

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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          Image: Write the Value of coins as a Fraction out of 100: 165/100         Write the Decimal Value= (show work)         45, 55, 65, plus 100 = 165 cents = \$1.65 Or \$0.45 + \$0.20 + 1.00 = \$1.65	Student B - Decimal value = Check the count \$1.65 $\frac{coin}{stats}$ $\frac{coin}{cxchange}$ $\frac{1}{1023456}$ $\frac{1}{1241} N PAULLNA}{CHCAGO, L6 0622}$ Numbers of Coins Counted: Dollars 0 Half - Dollars 0 Quarters 4 Dimes 2 Nickels 0 Permises 45 Coin Total: \$1.65 Coash Value \$1.65
	<b>Bills and coins you used to pay</b> 1 dollar bill, 2 quarters, a dime and a nickel \$1.65

## Name: Period: Date: Writing Decimals as Money Max

Names: Student A \_\_\_\_\_

Student B \_\_\_\_\_

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

\_ Date:

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.