Pennies and Nickels

Procedural Lesson Grade 2 · Unit 7 · Lesson 2 MC: 2.MD.8



Problem of the Day

Objective: Today, I will count pennies and nickels.

Vocabulary

Cent (¢): a unit used to measure money in the United States (U.S. Currency); represents a part of a whole dollar

All cents are in the form of coins. Coins are different in size, color, and denomination (value).

Penny – value 1¢



Nickel – value 5¢



Teacher Resources

Considerations:

Review skip counting to help with counting coins. Allow students to use coin manipulatives to show the values, and to help count the money, if needed. Encourage students to use mental math when ready.

Students have already learned that a number can be decomposed and have the same value (e.g. 24 is the same as 2 tens and 4 ones). In the same way, coin values can be decomposed, represented in different ways, and still have the same value (e.g. 8¢ can be represented with 8 pennies, or with 1 nickel and 3 pennies).

Spend time finding multiple ways to represent amounts, and help students develop the concept of equivalent worth (e.g. a quarter has the same spending power as 5 nickels). SGP #2, SP #5, and HW #4 will offer opportunities to further this study.

Represent coins with these models:



Second grade students do not use decimals to write money amounts.

Be sure to show both sides of the coin and explain the need to identify coins by BOTH heads and tails.

Additionally, discuss how the size of a coin has no relation to its value.

Steps:

- 1. Count the nickels by skip-counting by 5.
- 2. Continue counting the pennies by counting on by 1.

Application of MPs:

✓ MP7: How can you arrange the coins to count them correctly?

To count coins correctly I arrange them

✓ MP8: As you are counting the coins, what do you notice about the quantity?

As I count coins one thing I notice is _





Answer Key:

I/M	SGP	FCU	SP	СН	HW
1. 26¢	1. 25¢	1. 21¢	1. 11¢	1. 20 nickels	1. 12¢
2. Answers will vary. Possible answer: 5¢ 5¢ 5¢ 1¢ 1¢ 1¢	2. Answers will vary. Possible answer: (5¢) (5¢) (5¢) (1¢) (1¢) (1¢) (1¢) (1¢) (1¢) (1¢) (1¢) (1¢)	2. 22¢	2. 28¢	2. Answers will vary. Possible answer: 10 nickels, 8 pennies	2. 28¢
			3. 29¢	Answers will 4.	3. 15¢
			4. 32¢		4. Answers will vary. Possible answer: 4 nickels, 2 pennies
			 5. Answers will vary. Possible answer: (5¢) (5¢) (5¢) (5¢) (5¢) (5¢) (5¢) (1¢) (1¢) (1¢) 		5. 11¢
			6. Benny is incorrect. Benny counted each coin as 1¢. The nickels are 5¢ and the penny is 1¢ totaling 46¢.		6. Yes, Kelly is correct because 3 nickels is equal to 15¢ and 2 more pennies makes 17¢.

Sample Response to MP questions:

- ✓ MP7: How will you arrange the coins to count them correctly? To count coins correctly I arrange them <u>in order from greatest to least</u>.
- ✓ MP8: As you are counting the coins, what do you notice about the quantity? As I count coins one thing I notice is <u>the quantity tells me how many times I will skip-count</u> <u>by the value</u>.



*MP1: Make sense of the problem and persevere in solving it! *MP8: Find a strategy to help solve the problem. Directions: Find the value of the coins.



2. Timmy has 18¢. Draw nickels and pennies to show how much money he has.

✓ MP7: How can you arrange the coins to count them correctly?

✓ MP8: As you are counting the coins, what do you notice about the quantity?

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Directions: Find the value of the coins.

1. How much money is shown?



2. Silvia has 20¢. Draw nickels and pennies to show how much money she has.

✓ MP7: How can you arrange the coins to count them correctly?

✓ MP8: As you are counting the coins, what do you notice about the quantity?

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Directions: Find the value of the coins.

1. How much money is shown?



2. Angelo has the money you see below. How much money does he have?







Name:

Date:

Directions: Find the value of the coins.









- 1. How many nickels are in a dollar?
- 2. Julia has a group of nickels and pennies in her pocket that make 58¢. How many nickels and pennies could she have in her pocket?

Extension

*MP4: Apply mathematics in everyday life.

• Choose an amount of money less than \$1.00. Draw nickels and pennies to show that amount of money.





Reaching Consensus

Student Presentations

*MP6: How do you know your answers are correct/reasonable?



Recap today's lesson with one or more of the following questions:

MP7: How can you arrange the coins to count them correctly?

MP8: As you are counting the coins, what do you notice about the quantity?



Homework	
Unit 7 Lesson 2: Pennies and Nickels	

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Date: _____

Directions: Find the value of the coins.









