

Coins in Madison's Pocket Anchor Papers

Coins in Madison's Pocket

Madison has some pennies, nickels, dimes, and quarters in her pocket. She counts the coins and she has a total of \$1.63. Use the following clues to determine how many of each coin Madison could have in her pocket:

- She has an odd number of quarters.
- She has more dimes than nickels.
- She has fewer than 20 pennies.

Explain your thinking using pictures, words, and/or symbols.

STUDENT A



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STUDENT B

10 10 10 10 + \$1.63

Name _____

STUDENT B

5 25 100 | Coins in Madison's Pocket

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25 25 25 25 25 | 5 | 10 10 10 10 + \$1.63

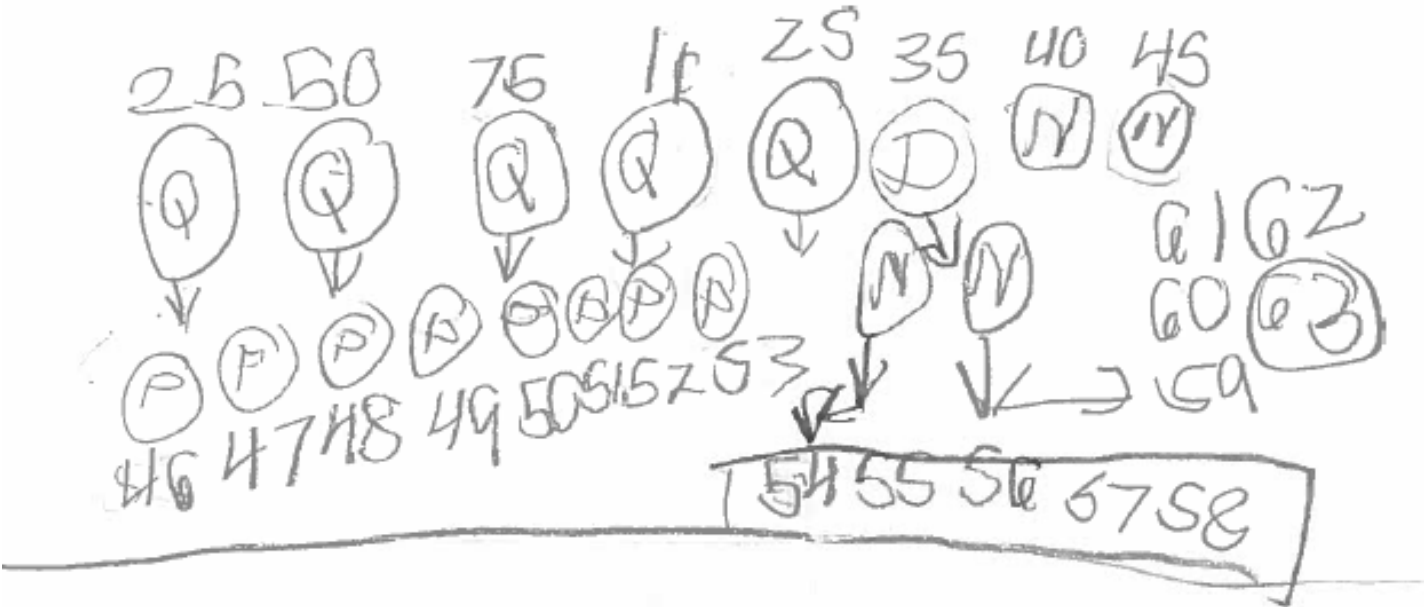
25 25 25 | 5 | 10 10 10 10 10 10 10 10 | 10 10 10 | + \$1.63

25 25 25 25 25 | 10 10 10 | 5 | 10 10 10 | + \$1.63

10 10 10 10 10 10 10 10 10 10 10 10 10 10 | 10 10 10 | + \$1.63

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STUDENT C



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STUDENT D

$$\textcircled{25} \textcircled{25} \textcircled{25} \textcircled{25} \textcircled{25} = \$1.25 +$$

$$\textcircled{10} \textcircled{10} \textcircled{10} = \$1.55 + \textcircled{5} =$$

$$= \$1.63 \quad \textcircled{1} \textcircled{1} \textcircled{1} \textcircled{25} \textcircled{10} \textcircled{10} \textcircled{10} \textcircled{10} =$$

$$65¢ + \textcircled{10} + \textcircled{10} + \textcircled{10} + \textcircled{10} + \textcircled{10} = \$1.$$

$$15 + \textcircled{10} \textcircled{10} = \$1.35 + \textcircled{10} \textcircled{10} +$$

$$\textcircled{5} + \textcircled{1} \textcircled{1} \textcircled{1} = \$1.63$$

Virginia Department of Education 2019 Grade 2 Task

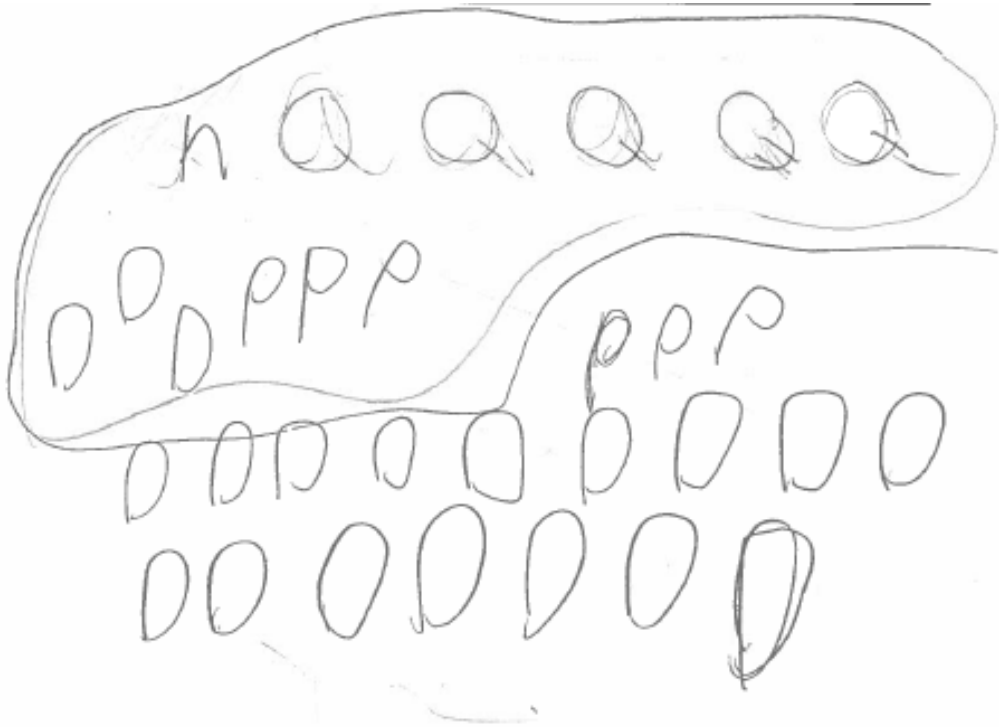
$$\textcircled{25} \textcircled{25} \textcircled{25} = 75¢ + \textcircled{10} \textcircled{10} \textcircled{10} =$$

$$\$1.05 + \textcircled{10} \textcircled{10} \textcircled{10} \textcircled{10} \textcircled{10} = \$1.55 + \textcircled{10} \textcircled{10} \textcircled{10}$$

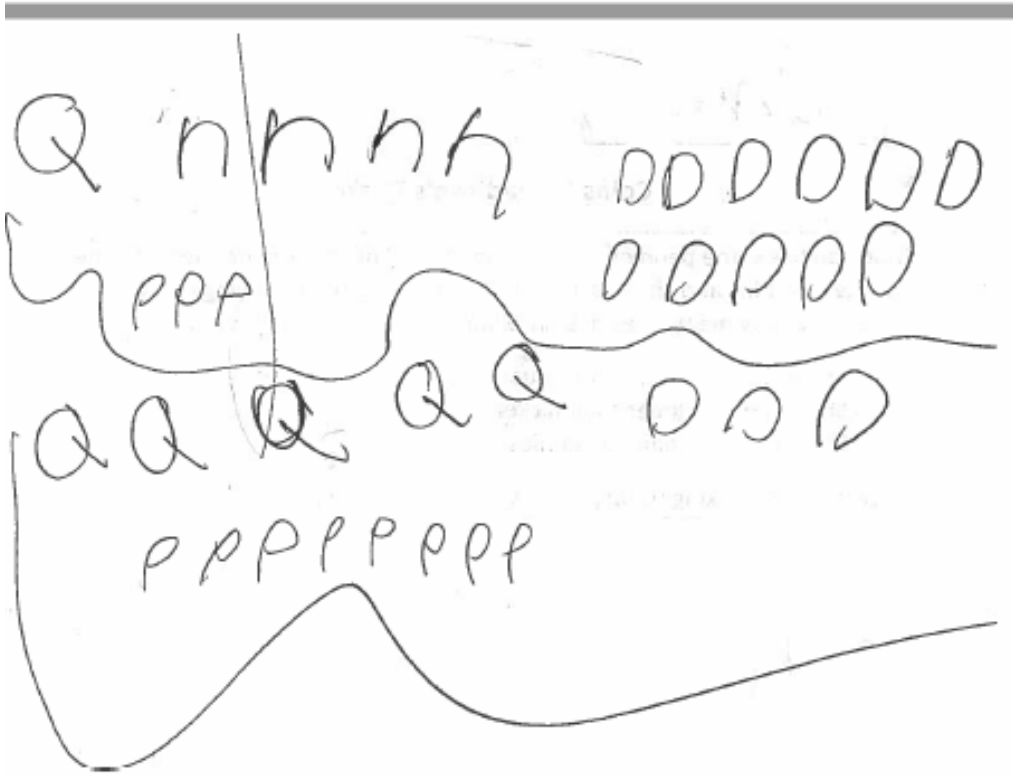
$$\textcircled{1} \textcircled{1} \textcircled{1} \textcircled{5} = \$1.63$$

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STUDENT E



Virginia Department of Education 2019 Grade 2 Task



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STUDENT F

The student's work is divided into two sections:

Left Section:

- A diagram of coins: three quarters (Q), one nickel (N), two dimes (D), two quarters (Q), one dime (D), and three pennies (P).
- Equation: $\$1.00$
- Equation: $63¢ = 63¢$
- Equation: $\$1.00 + 63¢ = \1.63

Right Section:

- 18 pennys
- 3 Nickels
- 4 Dimes
- $= 63¢$

- 6 Dimes
- 1 Quarter
- 2 Nickels
- $= \$1.00$
- $\$1.00 + 63¢ = \1.63