

Using the Fewest Coins

NCTM Standards 1, 2, 6, 7, 8, 9, 10

- 1 Make 14¢ in as many ways as possible. You may not need all the rows.

D	N	P	Number of Coins
0	0		
0	1		
0	2		
1			

What is the smallest number of coins needed to make 14¢?

_____ coins

- 2 Make 18¢ in as many ways as possible. You may not need all the rows.

D	N	P	Number of Coins
0	0	18	18
0	1	13	14
0	2	8	
0	3		
1			

What is the smallest number of coins needed to make 18¢?

_____ coins

- 3 Show how to make each amount using the fewest coins.

	D	N	P
7¢	0	1	
16¢			
20¢			
24¢			



Solve each problem. You can use quarters, dimes, nickels, and pennies.

- 4 Tran has two coins of one kind and two coins of a different kind. What is the largest amount of money he could have? Explain.

- 5 Sue has 1 quarter, 1 dime, and 2 pennies. She exchanges some coins and now has five coins that total the same amount of money. What are Sue's five coins?

- 6 Devi has 64¢.

What is the largest number of pennies he could have? _____

What is the largest number of nickels he could have? _____

What is the largest number of dimes he could have? _____

What is the largest number of quarters he could have? _____



- 7 Challenge** Jenny has 4 coins. She cannot make the same amount of money with fewer coins.

Could she have 40¢? Explain your thinking. _____

Could she have 56¢? Explain your thinking. _____
