



Coins In My Pocket

This morning I found 24 coins in my pocket.

- One-half of the coins are quarters.
- One-fourth of them are dimes.
- One-eighths are nickels.
- The rest are pennies.



How much money do I have in my pocket?

Show how you got your answer and how you know it is correct.



A Pocket Full of Coins

Janice has \$2.46 worth of coins in her pocket. The coins are of four different denominations, and she has the same number of each denomination.

What are the four denominations, and how many of each does she have?

Solution:

Janice has six pennies, six nickels, six dimes, and six quarters. The easiest way to arrive at the answer is to notice immediately that, since the last number in the amount she has is 6, she must have either six pennies or one penny. She can't have just one penny, because then she would have only one each of three other denominations, and that can't add up to \$2.46. So she must have six of each denomination. She can't have six silver dollars, because then she'd have more than \$2.46. And half-dollars are no longer in circulation.