

COIN PROBLEMS

1. 20 coins consisting of dimes and nickels are worth \$1.65
How many nickels are they?

Solution: Let n = the number of nickels
Then $20 - n$ = the number of dimes

Now form a table.

Coins	Number	Value in Cents
Nickels	N	$5n$
Dimes	$20 - n$	$10(20-n)$

Therefore $5n + 10(20-n) = 165$ (\$1.65 – 165 cents)
Complete the solution.

2. 30 coins consisting of nickels and dimes are worth \$2.40. How many of each kind are there?
3. A pocketbook contained 12 coins, all nickels and dimes. Their value was \$1.05. How many nickels were there?
4. Eleven coins consisting of quarters and nickels are worth \$1.95. How many quarters are there?
5. A sum of money amounting to \$2.15 consists of dimes and nickels. There are 5 more dimes than nickels. How many coins of each kind are there?
6. A sum of money amounting to \$7.50 consists of nickels, dimes, and quarters. There are twice as many dimes as nickels and 10 more quarters than nickels. How many coins of each kind are there?
7. There were 770 tickets sold for a football game. The student tickets cost a quarter and the tickets bought at the gate were a half-dollar each. \$228 was taken in. How many of each kind of ticket were sold? What was the average price per ticket?
8. 1005 tickets were sold at a large movie house on a Saturday afternoon, totaling \$793.00. The tickets were 85 cents for an adult and 50 cents for a child. How many of each was sold?