Conditions

sally has seven times as many dimes as nickels.their value is $3.00.how many nickels does she have?

Solution

As we know, the dime worth is 10 cents, the nickel worth is 5 cents. Assume that the amount of nickels is x. Then the amount of dimes is 7*x. And totally it is 3.00$. 3$ is 300 cents. So we can construct an equation:

$$10 \cdot 7 \cdot x + 5 \cdot x = 300$$

$$75x = 300$$

$$x = 4$$

The amount of nickels is 4, the amount of dimes is 4*7=28.

Answer: The amount of nickels is 4, the amount of dimes is 28.