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Algebra coin problems worksheet answers

Learning results Define the value of a certain number of coins Use a problem solving method to solve word problems involving coins Imagine to take a handful of coins out of your pocket or purse and place them on a table. How would you determine the value of a bunch of coins? If you can design a step-by-step plan to find the total value of coins, it will help you when you start to solve problems with the word coins. One way to bring some order into coins would be to separate coins into heaps according to their value. Coins are coins, coins with coins and so on. If you want to get the total value of all coins, you would add the total value of each bunch. To specify the total value of a nickel pile, multiply the number of nickels, which is times the value of one nickel. How would you determine the value of each customer? Think of a coin pile – how much is it worth? If you count the number of cents, you'll know how many you have – the number of cents. But that doesn't tell you the value of all the cents. Tell me you've counted 17 dimes; How much are they worth? Each dime is worth \$0.10 – this is the value of one dime. To find the total value of 17 dimes, multiply 17 by \$0.10 to get \$1.70. This is the total value of all 17 dimes.
$$17 \times \$0.10 = \$1.70$$
 The total value is given as follows:
$$\text{number} \times \text{value} = \text{total value}$$
 where the number of coins, the value is the value of each coin, and total value is the total value of all coins. You can continue this procedure for each type of coin, and then you would know the total value of each type of coin. To get the total value of all coins, add the total value of each type of coin. Let's look at the specific case. Let's say there are 14 quarters, 17 dimes, 21 nickels and 39 pennies. We will create a table for the organization of information – coin type, number of each and value. Type

Coin Type	Number	Value (\$)	Total Value (\$)
Quarter	14	0.25	3.50
Dime	17	0.10	1.70
Nickel	21	0.05	1.05
Penny	39	0.01	0.39

 The total value of all coins is \$6.64. See how the table above has helped us organize all the information. Let's review the problem solving method for word problems. Step 1. Read the problem. Make sure you understand all the words and ideas. Step 2. Find out what you're looking for. Step 3. On the name of what you are looking for. Step 4. Translate into an equation. Find the problem in one sentence. Then translate into an equation. Step 5. Solve the equation using good algebraic techniques. Step 6. Check. Step 7. Answer the question. Let's see how this method is used to solve problems with the word coin. Adalberto has \$2.25 in cents and nickels in his pocket. It's nine cents more than a coin. How much of a coin does he have? Solution: Step 1. Read the problem. Make sure you understand all the words and ideas. Specify the types of coins involved. Think of the strategy we used to find the value of coins. The first thing you need is to notice what types of coins are included. Adalberto has money and coins. Create a table to organize the information. Select columns type, number, value, total value. Specify the types of coins. Write in the value of each type of coin. Write in the total value of all coins. We can do this problem in cents or dollars. Here we will do it in dollars and put a dollar sign (\$) on the table as a reminder. The value of the coin is \$0.10 and the nickel value is \$0.05. The total value of all coins is \$2.25. Type

Coin Type	Number	Value (\$)	Total Value (\$)
Dime	10	0.10	1.00
Nickel	9	0.05	0.45

 Now we have all the necessary information from the problem! Mn the number when the value is to obtain the total value of each type of coin. While you don't know the actual number, you have the expression it represents. And so now, we re-assess
$$10d + 9n = 2.25$$
 and write the results in the Total value column. Type

Coin Type	Number	Value (\$)	Total Value (\$)
Dime	10	0.10	1.00
Nickel	9	0.05	0.45

 Subtract 0.45 from each side.
$$10d + 0.90 = 2.25 - 0.45$$
 Share to find the number of smokes.
$$10d = 1.35$$

$$d = 0.135$$
 The number of nickel is
$$d + 9 = 0.135 + 9 = 9.135$$
 Step 6. Check.

Coin Type	Number	Value (\$)	Total Value (\$)
Dime	12	0.10	1.20
Nickel	12	0.05	0.60

$$1.20 + 0.60 = 1.80$$

$$1.80 + 0.45 = 2.25$$
 Step 7. Answer the question. Adalberto is up 12 cents and 21 cents. If it was homework, our work might look like this: Read the problem. Make sure you understand all words and ideas and create a table to organize the information. Find out what you're looking for. Tell me what you're looking for. Select the variable that represents this quantity. Use variable expressions to display the number of each type of coin and write them down in a table. Mn the number when the value is to obtain the total value of each type of coin. Translate into an equation. Write an equation by adding the total values of all types of coins. Solve the equation using good algebraic techniques. Check the answer to the problem and make sure it makes sense. Answer the question with a full sentence. You may find it useful to insert all numbers into the table to check. Type

Coin Type	Number	Value (\$)	Total Value (\$)
Quarter	9	0.25	2.25
Penny	18	0.01	0.18

$$2.25 + 0.18 = 2.43$$
 Step 7. Answer the question. Maria has 9 quarters and 18 pennies. Does \$2.43? More Lessons for Class 9 Math worksheets Examples, videos, worksheets, solutions, and activities that will help Algebra students solve coin word problems and problems with the word Algebra. Coin Word Problems How to solve word problems about values and number of coins? Example: Jim has a quarter and coins. He's got twice as many cents as a coin. If the value of the coins together costs \$4.40, how many cents and Thursdays does Jim have? Algebra Word problem: How to Coin Word Problem in 3 Variables? For example, quarters, coins and cents were 20 in total, with a value of \$1.90. How many were of each type if there were four times as many coins as quarters? Show solutions step by step Coin Word problems Students learn to solve problems with the word value such as the following. For example, Martin has a total of 19 cents and \$1.65 coins. How much of a coin does he have? Note that this issue requires a chart to organize information. The chart is based on the total value formula, which states that the number of coins is times the value of each coin = the total value. The chart is then used to set the equation. Coin Word Problems Examples: 1. Jack and Betty have 28 coins, which are coins and cents. If the value of the coins is \$1.95, how can each guy have it? 2. Coins and cents fell to the ground. 12 cents is more than a cent. The total value of the coins is \$5.10. How many cents and how many cents were on the floor? Show solutions step by step Try the free mathway calculator and troubleshoot solution below to practice different math themes. Test the examples you specify or enter your own problem and check the response with a step-by-step explanation. We welcome your feedback, comments and questions about this site or site. Please submit your feedback or inquiries via our feedback page. Page.