

Money Problems

Sam has \$10.65 made up of dimes and quarters. If there are 54 coins in all, how many dimes and quarters does he have?

To help solve this problem complete the chart below.

Number of Dimes	Number of Quarters	Value of Dimes (in cents)	Value of Quarters (in cents)	Total Value
53	1	$10 \times 53 = 530$	$25 \times 1 = 25$	555
52				
33				
d				
	q			

Use the information from the chart above to set up an equation and solve the problem.

In your notebooks, solve the following problems.

2.
 - a) A bill of \$2.35 was paid in dimes and nickels. If there were 32 coins in all, how many of each coin were there?
 - b) The value of the dimes in a vending machine is \$1.70 more than what it contains in quarters. If there are 199 coins in all, how many dimes and quarters are there?
 - c) Jordan bought a radio for \$120. He paid for it with \$2 coins and \$5 bills. If there were half as many coins as bills, how many \$2 coins were there and how many \$5 bills were there?
 - d) Bob has \$43.75 made up of \$2 coins and quarters. If there are 22 more quarters than \$2 coins, how many quarters are there?
 - e) Ed has \$8.50 in nickels and quarters. The number of nickels is 5 more than 6 times the number of quarters. How many nickels does he have?
 - f) Terri has some dimes and nickels in her purse. She has four more dimes than nickels. The value of the nickels is \$1.60 less than the value of the dimes. How many of each coin does she have?

Answers:

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- | | | |
|----------------------------|---------------------------|-------------------------|
| 2. a) 17 nickels, 15 dimes | b) 147 dimes, 52 quarters | c) Ten \$2, Twenty \$5 |
| d) 39 quarters | e) 95 nickels | f) 24 nickels, 28 dimes |