



Algebra with Coins - Same Count of Two and Two with Four Coin Types - to Equations

1 \$2.05

Some coins have a total value of \$2.05 There are the same number of Pennies, Nickels, Dimes, and Quarters, and only those coins. What equations would help us solve?

A	B
$p = n$	$d = q$
$n = d$	$q = n$
$d = q$	$n = p$
$1p + 5n + 10d + 25q = 205$	$10d + 25q + 5n + 1p = 205$

2 \$1.46

Some coins have a total value of \$1.46 There are the same number of Dimes and Quarters, and the same number of Pennies and Nickels. What equations would help us solve?

A	B
$q = n$	$d = q$
$p = d$	$p = n$
$25q + 5n + 1p + 10d = 146$	$10d + 25q + 1p + 5n = 146$

3 \$0.76

Some coins have a total value of \$0.76 There are the same number of Dimes and Quarters, and the same number of Pennies and Nickels. What equations would help us solve?

A	B
$d = q$	$d = p$
$p = n$	$n = q$
$10d + 25q + 1p + 5n = 76$	$10d + 1p + 5n + 25q = 76$

4 \$0.59

Some coins have a total value of \$0.59 There are the same number of Pennies and Nickels, and the same number of Dimes and Quarters. What equations would help us solve?

A	B
$p = n$	$n = p$
$d = q$	$d = q$
$1p + 5n + 10d + 25q = 59$	$5n + 1p + 10d + 25q = 59$

5 \$1.00

Some coins have a total value of \$1.00 There are the same number of Pennies and Nickels, and the same number of Dimes and Quarters. What equations would help us solve?

A	B
$p = n$	$n = q$
$d = q$	$d = p$
$1p + 5n + 10d + 25q = 100$	$5n + 25q + 10d + 1p = 100$

6 \$1.34

Some coins have a total value of \$1.34 There are the same number of Pennies and Dimes, and the same number of Nickels and Quarters. What equations would help us solve?

A	B
$p = n$	$p = d$
$q = d$	$n = q$
$1p + 5n + 25q + 10d = 134$	$1p + 10d + 5n + 25q = 134$

7 \$1.64

Some coins have a total value of \$1.64 There are the same number of Pennies, Nickels, Dimes, and Quarters, and only those coins. What equations would help us solve?

A	B
$n = d$	$p = n$
$d = q$	$n = d$
$q = p$	$d = q$
$5n + 10d + 25q + 1p = 164$	$1p + 5n + 10d + 25q = 164$

8 \$1.75

Some coins have a total value of \$1.75 There are the same number of Pennies and Dimes, and the same number of Nickels and Quarters. What equations would help us solve?

A	B
$p = d$	$p = n$
$n = q$	$q = d$
$1p + 10d + 5n + 25q = 175$	$1p + 5n + 25q + 10d = 175$