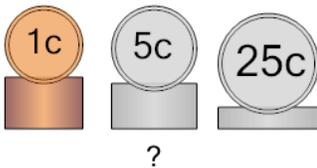


## Algebra with Coins - X Fraction as Many of Coin and Total - Three Coin Types - to Equations

**1** \$0.39

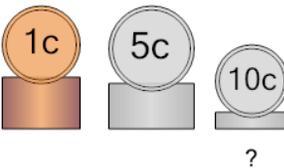
Some coins have a total value of \$0.39. There are  $\frac{1}{2}$  as many Nickels as Pennies and  $\frac{1}{2}$  as many Quarters as Nickels. What equations would help us solve?



A	$q = \frac{p}{2}$	B	$n = \frac{p}{2}$
	$n = \frac{q}{2}$		$q = \frac{n}{2}$
	$1p + 25q + 5n = 39$		$1p + 5n + 25q = 39$

**2** \$0.72

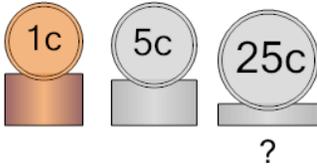
Some coins have a total value of \$0.72. There are  $\frac{1}{2}$  as many Nickels as Pennies and  $\frac{1}{2}$  as many Dimes as Nickels. What equations would help us solve?



A	$d = \frac{p}{2}$	B	$n = \frac{p}{2}$
	$n = \frac{d}{2}$		$d = \frac{n}{2}$
	$1p + 10d + 5n = 72$		$1p + 5n + 10d = 72$

**3** \$0.78

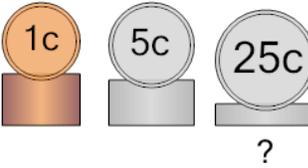
Some coins have a total value of \$0.78. There are  $\frac{1}{2}$  as many Nickels as Pennies and  $\frac{1}{2}$  as many Quarters as Nickels. What equations would help us solve?



A	$q = \frac{p}{2}$	B	$n = \frac{p}{2}$
	$n = \frac{q}{2}$		$q = \frac{n}{2}$
	$1p + 25q + 5n = 78$		$1p + 5n + 25q = 78$

**4** \$0.39

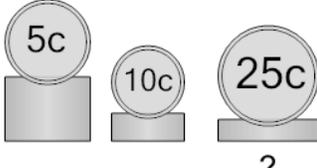
Some coins have a total value of \$0.39. There are  $\frac{1}{2}$  as many Nickels as Pennies and  $\frac{1}{2}$  as many Quarters as Nickels. What equations would help us solve?



A	$n = \frac{p}{2}$	B	$q = \frac{p}{2}$
	$q = \frac{n}{2}$		$n = \frac{q}{2}$
	$1p + 5n + 25q = 39$		$1p + 25q + 5n = 39$

**5** \$0.65

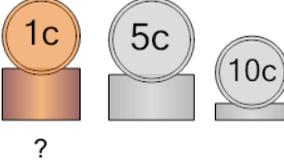
Some coins have a total value of \$0.65. There are  $\frac{1}{2}$  as many Dimes as Nickels and  $\frac{1}{2}$  as many Quarters as Dimes. What equations would help us solve?



A	$d = \frac{q}{2}$	B	$d = \frac{n}{2}$
	$n = \frac{d}{2}$		$q = \frac{d}{2}$
	$25q + 10d + 5n = 65$		$5n + 10d + 25q = 65$

**6** \$0.72

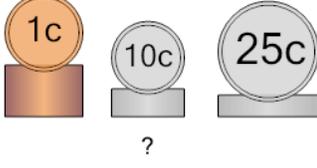
Some coins have a total value of \$0.72. There are  $\frac{1}{2}$  as many Nickels as Pennies and  $\frac{1}{2}$  as many Dimes as Nickels. What equations would help us solve?



A	$d = \frac{p}{2}$	B	$n = \frac{p}{2}$
	$n = \frac{d}{2}$		$d = \frac{n}{2}$
	$1p + 10d + 5n = 72$		$1p + 5n + 10d = 72$

**7** \$0.98

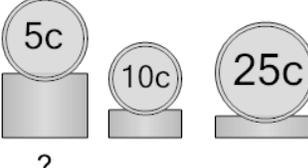
Some coins have a total value of \$0.98. There are  $\frac{1}{2}$  as many Dimes as Pennies and  $\frac{1}{2}$  as many Quarters as Dimes. What equations would help us solve?



A	$q = \frac{p}{2}$	B	$d = \frac{p}{2}$
	$d = \frac{q}{2}$		$q = \frac{d}{2}$
	$1p + 25q + 10d = 98$		$1p + 10d + 25q = 98$

**8** \$1.30

Some coins have a total value of \$1.30. There are  $\frac{1}{2}$  as many Dimes as Nickels and  $\frac{1}{2}$  as many Quarters as Dimes. What equations would help us solve?



A	$n = \frac{d}{2}$	B	$d = \frac{n}{2}$
	$q = \frac{n}{2}$		$q = \frac{d}{2}$
	$10d + 5n + 25q = 130$		$5n + 10d + 25q = 130$