

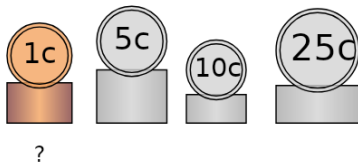


Model contextual problems with equations and inequalities

1

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?

\$0.59



A

$$\begin{aligned} p &= n \\ d &= q \\ 1p + 5n + 10d + 25q &= 59 \end{aligned}$$

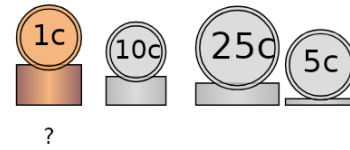
B

$$\begin{aligned} n &= p \\ d &= q \\ 5n + 1p + 10d + 25q &= 59 \end{aligned}$$

2

Some coins have a total value of \$0.90. There are 2 more Pennies than Dimes, 1 more Dimes than Quarters, and 1 more Quarters than Nickels. What equations would help us solve?

\$0.90



A

$$\begin{aligned} p &= d + 2 \\ d &= q + 1 \\ q &= n + 1 \\ 1p + 10d + 25q + 5n &= 90 \end{aligned}$$

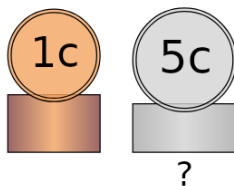
B

$$\begin{aligned} p &= q + 2 \\ q &= d + 1 \\ d &= n + 1 \\ 1p + 25q + 10d + 5n &= 90 \end{aligned}$$

3

Some coins have a total value of \$0.07. There are 1 more Pennies than Nickels. What equations would help us solve?

\$0.07



A

$$\begin{aligned} p &= n + 1 \\ 1p + 5n &= 7 \end{aligned}$$

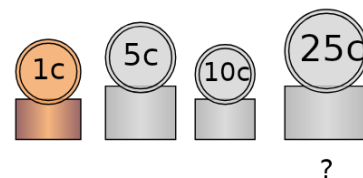
B

$$\begin{aligned} n &= p + 1 \\ 5n + 1p &= 7 \end{aligned}$$

4

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?

\$1.64



A

$$\begin{aligned} p &= d \\ d &= q \\ q &= n \\ 1p + 10d + 25q + 5n &= 164 \end{aligned}$$

B

$$\begin{aligned} p &= n \\ n &= d \\ d &= q \\ 1p + 5n + 10d + 25q &= 164 \end{aligned}$$

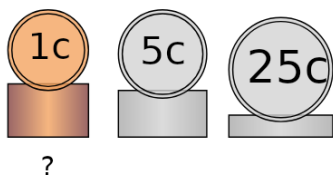


Model contextual problems with equations and inequalities

5

Some coins have a total value of \$1.17. 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?

\$1.17



A

$$\begin{aligned}n &= \frac{p}{2} \\q &= \frac{n}{2} \\1p + 5n + 25q &= 117\end{aligned}$$

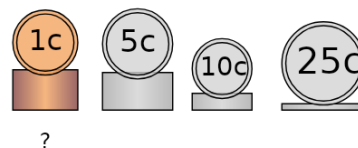
B

$$\begin{aligned}q &= \frac{p}{2} \\n &= \frac{q}{2} \\1p + 25q + 5n &= 117\end{aligned}$$

6

Some coins have a total value of \$0.72. There are 3 more Pennies than Nickels, 2 more Nickels than Dimes, and 1 more Dimes than Quarters. What equations would help us solve?

\$0.72



A

$$\begin{aligned}q &= n + 3 \\n &= d + 2 \\d &= p + 1 \\25q + 5n + 10d + 1p &= 72\end{aligned}$$

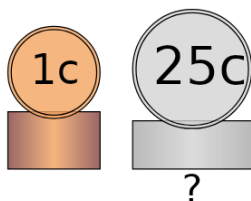
B

$$\begin{aligned}p &= n + 3 \\n &= d + 2 \\d &= q + 1 \\1p + 5n + 10d + 25q &= 72\end{aligned}$$

7

Some coins have a total value of \$0.31. There are 5 more Pennies than Quarters. What equations would help us solve?

\$0.31



A

$$\begin{aligned}q &= p + 5 \\25q + 1p &= 31\end{aligned}$$

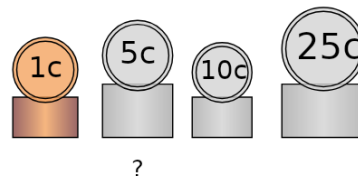
B

$$\begin{aligned}p &= q + 5 \\1p + 25q &= 31\end{aligned}$$

8

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?

\$2.05



A

$$\begin{aligned}p &= d \\d &= n \\n &= q \\1p + 10d + 5n + 25q &= 205\end{aligned}$$

B

$$\begin{aligned}p &= n \\n &= d \\d &= q \\1p + 5n + 10d + 25q &= 205\end{aligned}$$

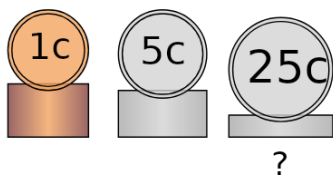


Model contextual problems with equations and inequalities

9

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?

\$0.39



A

$$\begin{aligned}n &= \frac{p}{2} \\q &= \frac{n}{2} \\1p + 5n + 25q &= 39\end{aligned}$$

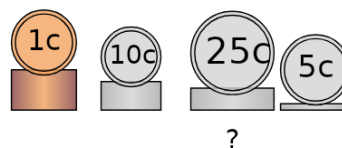
B

$$\begin{aligned}q &= \frac{p}{2} \\n &= \frac{q}{2} \\1p + 25q + 5n &= 39\end{aligned}$$

10

Some coins have a total value of \$0.90. There are 2 more Pennies than Dimes, 1 more Dimes than Quarters, and 1 more Quarters than Nickels. What equations would help us solve?

\$0.90



A

$$\begin{aligned}n &= d + 2 \\d &= q + 1 \\q &= p + 1 \\5n + 10d + 25q + 1p &= 90\end{aligned}$$

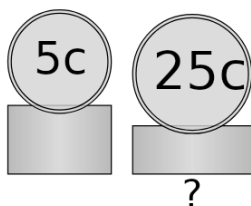
B

$$\begin{aligned}p &= d + 2 \\d &= q + 1 \\q &= n + 1 \\1p + 10d + 25q + 5n &= 90\end{aligned}$$

11

Some coins have a total value of \$0.70. There are 2 more Nickels than Quarters. What equations would help us solve?

\$0.70



A

$$\begin{aligned}n &= q + 2 \\5n + 25q &= 70\end{aligned}$$

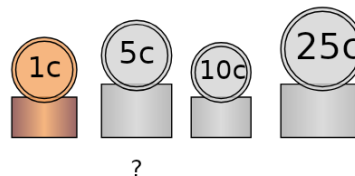
B

$$\begin{aligned}q &= n + 2 \\25q + 5n &= 70\end{aligned}$$

12

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?

\$1.64



A

$$\begin{aligned}p &= d \\d &= n \\n &= q \\1p + 10d + 5n + 25q &= 164\end{aligned}$$

B

$$\begin{aligned}p &= n \\n &= d \\d &= q \\1p + 5n + 10d + 25q &= 164\end{aligned}$$