Problem Solving: Two-Question Problems

Sometimes you need the answer to one question to help you answer another question.

Ms. Williams bought 3 pizzas for $8 each. She gave the cashier $30. How much change did she receive?

First, find the cost of the pizzas.

\[
\begin{array}{c|c|c|c}
& $8 & $8 & $8 \\
\hline
\text{in all} & 24 \\
\end{array}
\]

\[8 \times 3 = 24\]

The pizzas cost $24.

Ms. Williams received $6 in change.

1a. Ray bought a pair of sunglasses for $22 and a hat for $19. How much money did the items cost?

\[
\begin{array}{c|c}
& $22 & $19 \\
\hline
\text{in all} & 41 \\
\end{array}
\]

1b. Ray gave the cashier a $50 bill. How much change should Ray receive?

\[
\begin{array}{c|c}
& $41 \\
\hline
\text{in all} & 50 \\
\end{array}
\]

2. Communicate Cindy bought 4 lunch specials for $7 each. She gave the cashier $40. How much change should Cindy receive? Explain how you found your answer.

\[
\begin{array}{c|c}
& $28 \\
\hline
\text{in all} & 40 \\
\end{array}
\]

\[40 - 28 = 12\]

Cindy received $12 in change.