

Addition Strategies (page 1 of 2)

In Grade 5 you are practicing addition strategies.

$$6,831 + 1,897 =$$

Breaking Apart the Numbers

Rachel solved the problem by adding one number in parts.

Rachel's solution

$$\begin{array}{r}
 6,831 \\
 + 1,000 \\
 \hline
 7,831 \\
 + 800 \\
 \hline
 8,631 \\
 + 90 \\
 \hline
 8,721 \\
 + 7 \\
 \hline
 \mathbf{8,728}
 \end{array}$$

Charles, Zachary, and Janet solved the problem by adding by place. Their solutions are similar, but they recorded their work differently.

Charles's solution

$$\begin{array}{l}
 6,831 + 1,897 = \\
 6,000 + 1,000 = 7,000 \\
 800 + 800 = 1,600 \\
 30 + 90 = 120 \\
 1 + 7 = 8 \\
 \hline
 \mathbf{8,728}
 \end{array}$$

Zachary's solution

$$\begin{array}{r}
 6,831 \\
 + 1,897 \\
 \hline
 7,000 \\
 1,600 \\
 120 \\
 8 \\
 \hline
 \mathbf{8,728}
 \end{array}$$

Janet's solution

$$\begin{array}{r}
 \overset{1}{1} \\
 6,831 \\
 + 1,897 \\
 \hline
 \mathbf{8,728}
 \end{array}$$

Addition Strategies (page 2 of 2)

$$6,831 + 1,897 =$$

Changing the Numbers

Cecilia solved the problem by changing one number and adjusting the sum. She changed 1,897 to 2,000 to make the problem easier to solve.

Cecilia's solution

$$\begin{array}{r} 6,831 \\ + 2,000 \\ \hline 8,831 \\ - 103 \\ \hline \mathbf{8,728} \end{array}$$

I added 2,000 instead of 1,897.

Then I subtracted the extra 103.

Benito solved the problem by creating an equivalent problem.

Benito's solution

$$6,831 + 1,897 =$$

(-3) (+3) I added 3 to 1,897 and subtracted 3 from 6,831.

$$6,828 + 1,900 = \mathbf{8,728}$$



Show how you would solve the problem $6,831 + 1,897$.