Assessment : Section C Checkpoint

Teacher Instructions
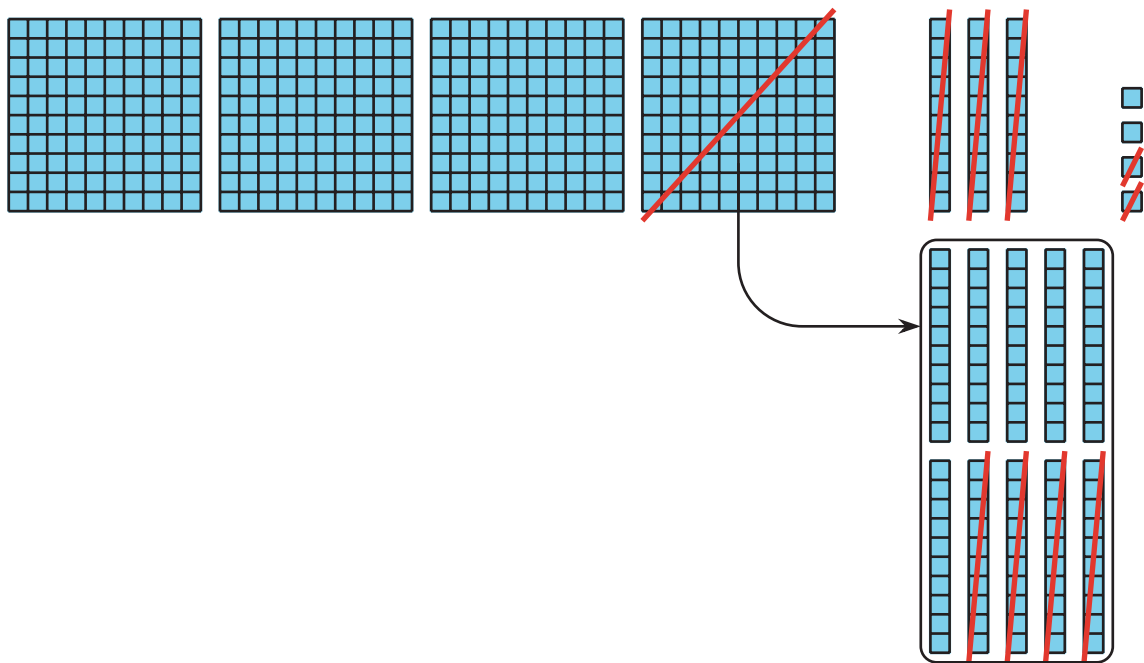
Give students access to base-ten blocks.

Problem 1

Goals Assessed

- Subtract numbers within 1,000 using strategies based on place value understanding, including decomposing a ten or hundred.

Statement

Which expression matches the diagram? Explain or show your reasoning.

A. $434 - 72$

B. $72 + 434$

C. $434 - 172$

Solution

$434 - 72$. Sample response: The blocks on the top represent 434 and then there are 2 ones crossed out and 3 tens and then 4 more tens from a hundred so that is 72 total that is taken away.

Problem 2

Goals Assessed

- Subtract numbers within 1,000 using strategies based on place value understanding, including decomposing a ten or hundred.

Statement

Find the value of $421 - 139$. Show your thinking.

Solution

282. Sample reasoning: I could not take 9 from 1 one so I had to break up one of the tens. That left me with 1 ten and 11 ones. But I could not take 3 tens from 1 ten so I had to break up one of the hundreds. That left me with 3 hundreds and 11 tens. Now I can take away 9 ones, 3 tens and 1 hundred.

$$
\begin{array}{r}
\overset{3}{\cancel{4}}\text{ hundreds}\quad \overset{\|}{\underset{}{\cancel{2}}}\text{ tens}\quad \overset{\|}{\cancel{1}}\text{ ones} \\
-\quad 1\text{ hundreds}\quad 3\text{ tens}\quad 9\text{ ones} \\
\hline
2\text{ hundreds}\quad 8\text{ tens}\quad 2\text{ ones}\qquad 282
\end{array}
$$