Lesson 4: Introduction to Addition Algorithms

- Let's learn new ways to add.

Warm-up: Which One Doesn't Belong: 247

Which one doesn't belong?

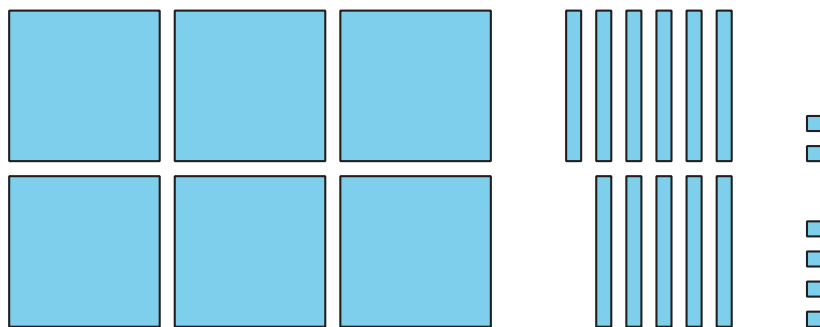A. $200 + 30 + 17$

B. 247

C. $200 + 47 + 10$

D. $100 + 140 + 7$

4.1: What is an Algorithm?

Three students found the value of $362 + 354$. Their work is shown. Explain how each method works.

1. Tyler's drawing

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2. Lin's method

$$
\begin{array}{r}
300 + 60 + 2 \\
+ \quad 300 + 50 + 4 \\
\hline
600 + 110 + 6
\end{array}
$$

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3. Han's method

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      3  6  2
   +  3  5  4
   ‾‾‾‾‾‾‾‾‾
            6
      1  1  0
   +  6  0  0
   ‾‾‾‾‾‾‾‾‾
      7  1  6
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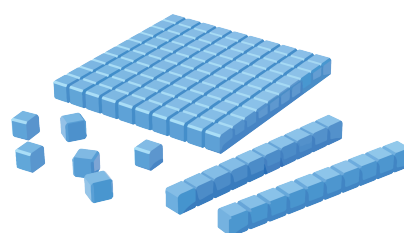
4.2: Try an Algorithm

Try using an algorithm to find the value of each sum. Show your thinking. Organize it so it can be followed by others.

1. $475 + 231$

2. $136 + 389$

3. $670 + 257$