

## Lesson 8: Subtraction Algorithms (Part 1)

- Let's learn a new way to subtract.

### Warm-up: Number Talk: Subtraction Strategies

Find the value of each expression mentally.

- $100 - 98$

- $101 - 99$

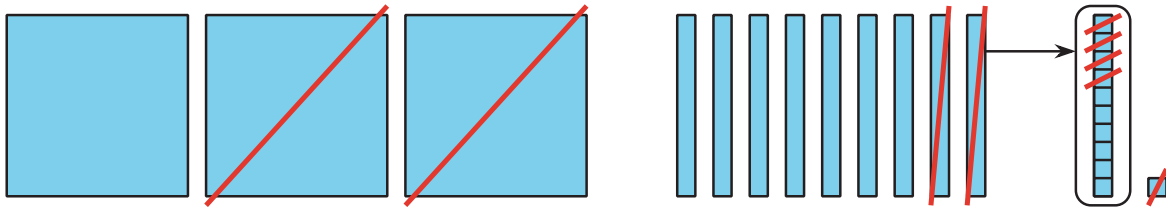
- $200 - 98$

- $204 - 98$

## 8.1: From Drawings to an Algorithm

Jada and Kiran found the value of  $391 - 215$ . Their work is shown.

Jada's drawing



Kiran's algorithm

$$\begin{array}{r}
 \phantom{300} + \phantom{90} + \phantom{1} \\
 300 + \cancel{90} + \cancel{1} \\
 - 200 + 10 + 5 \\
 \hline
 \end{array}$$

1. Explain how Kiran's algorithm starts.

---



---

2. Explain how Kiran recorded the decomposition of the ten into more ones.

---

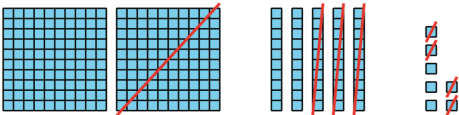
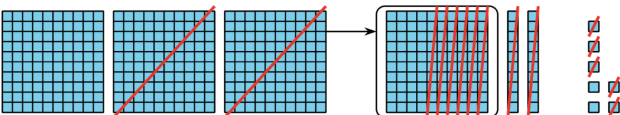
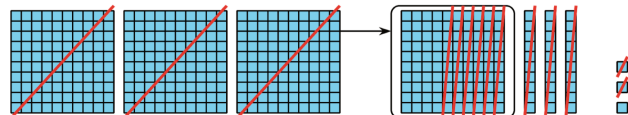
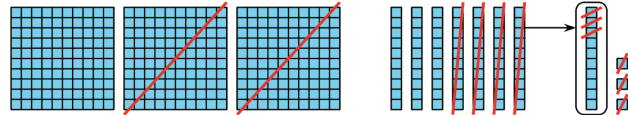


---

3. Finish Kiran's work.

## 8.2: Card Sort: Diagrams and Algorithms

Your teacher will give you a set of cards. Match each diagram with an algorithm.

<p>A</p> $\begin{array}{r} 300 + \cancel{70} + \cancel{3} \\ - 200 + 30 + 6 \\ \hline 100 + 30 + 7 \end{array}$ <p style="text-align: center; margin-left: 100px;">60      13</p>	<p>B</p> 
<p>C</p> $\begin{array}{r} 200 + 50 + 7 \\ - 100 + 30 + 4 \\ \hline 100 + 20 + 3 \end{array}$	<p>D</p> 
<p>E</p> 	<p>F</p> $\begin{array}{r} 200 \quad 120 \\ \cancel{300} + \cancel{20} + 7 \\ - 100 + 80 + 5 \\ \hline 100 + 40 + 2 \end{array}$
<p>G</p> 	<p>H</p> $\begin{array}{r} 200 \quad 130 \\ \cancel{300} + \cancel{30} + 3 \\ - 200 + 90 + 2 \\ \hline 0 + 40 + 1 \end{array}$