

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.

- $100 - 98$

- $101 - 99$

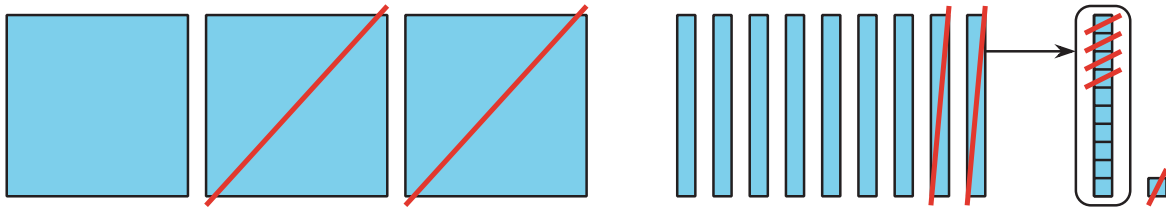
- $200 - 98$

- $204 - 98$

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

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

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.

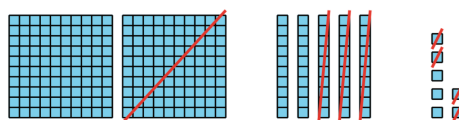
8.2: Card Sort: Diagrams and Algorithms

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

A

$$\begin{array}{r} 300 + \cancel{70} + \cancel{3} \\ - 200 + 30 + 6 \\ \hline 100 + 30 + 7 \end{array}$$

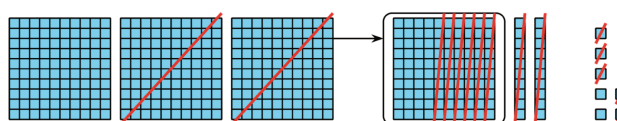
B



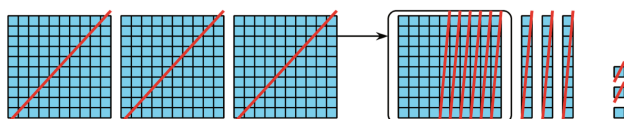
C

$$\begin{array}{r} 200 + 50 + 7 \\ - 100 + 30 + 4 \\ \hline 100 + 20 + 3 \end{array}$$

D



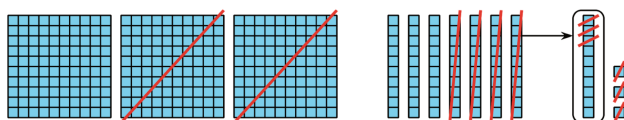
E



F

$$\begin{array}{r} 200 \quad 120 \\ \cancel{300} + \cancel{20} + 7 \\ - 100 + 80 + 5 \\ \hline 100 + 40 + 2 \end{array}$$

G



H

$$\begin{array}{r} 200 \quad 130 \\ \cancel{300} + \cancel{30} + 3 \\ - 200 + 90 + 2 \\ \hline 0 + 40 + 1 \end{array}$$