Unit 3, 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.

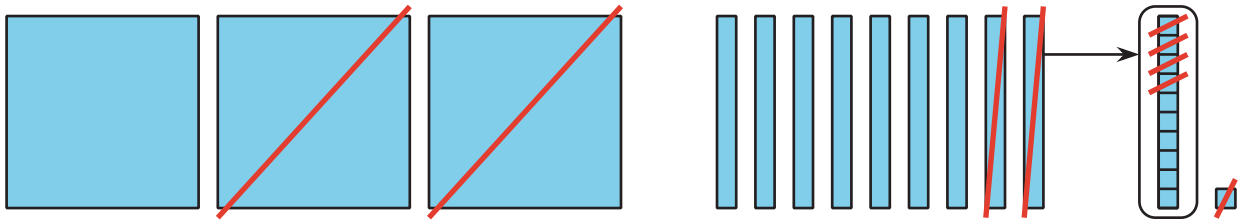
- $100 - 98$
- $101 - 99$
- $200 - 98$
- $204 - 98$

Activity 1

From Drawings to an Algorithm

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

Jada's drawing



Kiran's algorithm

$$\begin{array}{rrcrcr} & & & 80 & & 11 \\ & 300 & + & \cancel{90} & + & \cancel{1} \\ - & 200 & + & 10 & + & 5 \\ \hline \end{array}$$

1. Explain how Kiran's algorithm starts.

2. Explain how Kiran recorded decomposing 1 ten into more ones.

3. Finish Kiran's work.

Activity 2

Card Sort: Diagrams and Algorithms

Your teacher will give you a set of cards. Match each diagram to an algorithm. Be ready to explain your reasoning.