Unit 3, Lesson 9

Subtraction Algorithms (Part 2)

Let's learn more about our first subtraction algorithm.

Warm-up

True or False: Does It Commute?

Decide if each statement is true or false. Be prepared to explain your reasoning.

- $4 \times 5 = 5 \times 4$

- $125 + 200 = 200 + 125$

- $300 - 100 = 100 - 300$

Activity 1

Revise Subtraction Work

Lin's work for finding the value of $428 - 156$ is shown.

$$\begin{array}{rr} & (400 + 20 + 8) \\ - & (100 + 50 + 6) \\ \hline & 300 + 30 + 2 \end{array}$$

1. What error do you see in Lin's work?

2. What would you tell or show Lin so she can revise her work?

Activity 2

Try the Algorithm

Here is a subtraction algorithm you saw in an earlier lesson:

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

Try using this algorithm to find the value of each difference. Show your reasoning. Organize your work so it can be followed by others.

1. $283 - 159$

2. $425 - 192$

3. $639 - 465$

4. $591 - 128$

5. $832 - 575$