

**Grade 3 Unit 3**

Lesson 9

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**Unit 3 Lesson 9: Subtraction Algorithms (Part 2)****WU True or False: Does It Commute? (Warm up)**

## Student Task Statement

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

- $4 \times 5 = 5 \times 4$
- $125 + 200 = 200 + 125$
- $300 - 100 = 100 - 300$

**1 Revise Subtraction Work**

## Student Task Statement

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

$$\begin{array}{r} 400 + 20 + 8 \\ - 100 + 50 + 6 \\ \hline 300 + 30 + 2 \end{array}$$

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 Synthesis

$$\begin{array}{r} 300 \quad 120 \\ ~~400 + 20~~ + 8 \\ - 100 + 50 + 6 \\ \hline 200 + 70 + 2 \end{array}$$

**2 Try the Algorithm**

## Student Task Statement

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

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

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

1.  $283 - 159$
2.  $425 - 192$
3.  $639 - 465$
4.  $591 - 128$
5.  $832 - 575$

### Images for Activity Synthesis

$$\begin{array}{r}
 700 + \cancel{70} + \cancel{2} \\
 - 500 + 70 + 5 \\
 \hline
 200 + 50 + 7
 \end{array}$$