Unit 7, Lesson 4

Add and Subtract 3-Digit Numbers in Different Ways

Let's add and subtract 3-digit numbers.

Warm-up

Number Talk: Count Back by Place

Find the value of each expression mentally.

- $586 - 100$

- $486 - 20$

- $457 - 200$

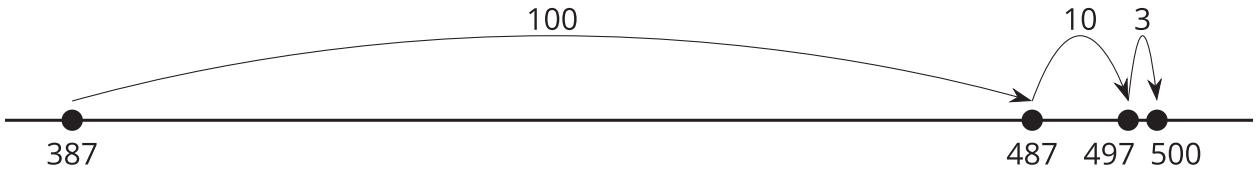
- $257 - 30$

Activity 1

Zero Tens and Zero Ones

Mai and Lin find the value of $500 - 387$.

Mai's work



$387 + ? = 500$

$387 + 100 = 487$

$487 + 10 = 497$

$497 + 3 = 500$

$100 + 10 + 3 = 113$

Lin's work

$387 = 300 + 80 + 7$

$500 - 300 = 200$

$200 - 80 = 120$

$120 - 7 = 113$

Find the value of each expression.

Show your thinking, using drawings, numbers, or words.

1. Try Mai's way. Find the value of $600 - 476$.

2. Try Lin's way. Find the value of $400 - 134$.

Activity 2

Add or Subtract with Expanded Form

1. Andre and Diego show their thinking with equations. They find the value of $427 + 351$.

Andre's work	Diego's work
7 + 1 = 8 20 + 50 = 70 400 + 300 = 700 700 + 70 + 8 = 778	400 + 20 + 7 300 + 50 + 1 700 + 70 + 8 = 778

How are Andre's and Diego's work alike? How are they different?

Show your thinking, using drawings, numbers, or words.

2. Try Andre's way. Find the value of $725 + 243$.

3. Try Diego's way. Find the value of $863 - 432$.

4. Choose your own way to find the value of $163 + 326$. Show your thinking, using drawings, numbers, or words.

5. Choose your own way to find the value of $692 - 571$. Show your thinking, using drawings, numbers, or words.

Section A Summary

We compared 3-digit numbers. We used addition to find the difference. We added and subtracted by counting on or counting back. We wrote numbers in expanded form to add or subtract, using place value.

