## Using Base Ten Blocks for Addition

Common Core Standards

2.NBT.1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases: a. 100 can be thought of as a bundle of ten tens—called a "hundred."

b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).

2.NBT.7 Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.





#### 383

- First, you show the first addend in base ten blocks (149)
- Next, show the second addend in base ten blocks (234)
- Add all the ones together (13), an adjustment must be made through a trade. In this case, the ones and the tens columns need adjusting because we must take a group of "10" bits from the ones column; and add it to the tens column. (13 - 10 =) 3
- Add all the tens together (7), in this case no trading adjustment needs to be made. However, you must include the trade from the ones column you now have (7+1 =) 8.
- Add all the hundreds together (3), in this case no trading adjustment needs to be made **3**.
- 149+234=**383**

# Using Base Ten Blocks for Subtraction

Common Core Standards

2.NBT.1 Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases:
a. 100 can be thought of as a bundle of ten tens—called a "hundred."
b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).

2.NBT.7 Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.



#### 2 3 4 - 149 =

### 85

- First, you show the first number (minuend) in base ten blocks (234)
- Next, show the second number (subtrahend) in base ten blocks (149)
- Subtract the ones (4 9), an adjustment must be made through a trade. In this case, the ones and the tens columns need adjusting because we must take a group of "10" rod from the tens column; and add it to the ones column. 10 + 4 - 9 = 14 - 9 = 5
- Subtract the tens (3 4), an adjustment must be made through a trade. In this case, the tens and the hundreds columns need adjusting because we must take a group of "100" flat from the hundreds column; and add it to the tens column. (10 + 2 - 4) = 12 - 4 = 8.
- Subtract the hundreds (1 1), in this case no trading adjustment needs to be made **0**.
- 2 3 4 149 = **85**