



# Expanded Form of Numbers

Let's represent 3-digit numbers as a sum of the value of each digit.

## Warm-up

### True or False: Value of Digits

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

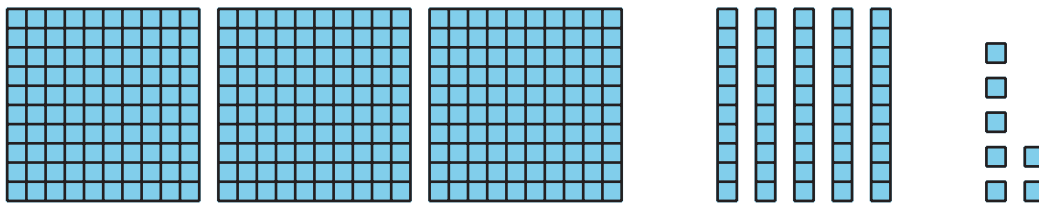
- $800 + 90 + 7 = 897$
- $156 = 50 + 100 + 6$
- $407 = 70 + 400$
- $632 = 22 + 10 + 600$



## Activity 1

### Expressions and 3-Digit Numbers

1. Andre has 3 hundreds. Tyler has 5 tens. Mai has 7 ones. They want to represent the amount with an expression.



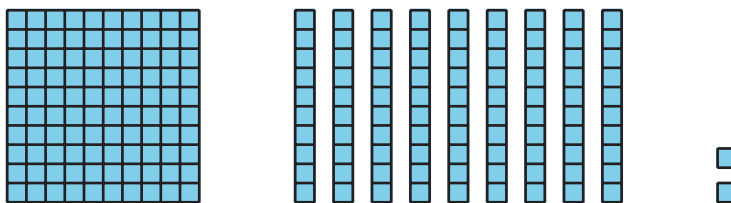
Write an expression to represent the sum of their values.

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_

Write the total value as a 3-digit number. \_\_\_\_\_

Write each number as the sum of hundreds, tens, and ones.  
This is called expanded form. Then write the 3-digit number.

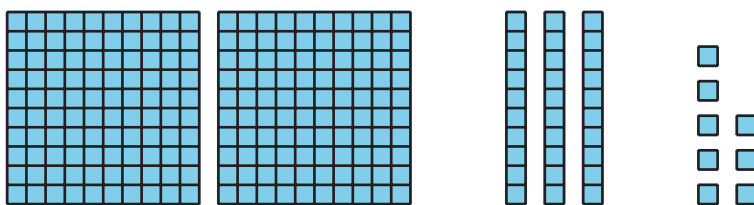
2.



Expanded form: \_\_\_\_\_

3-digit number: \_\_\_\_\_

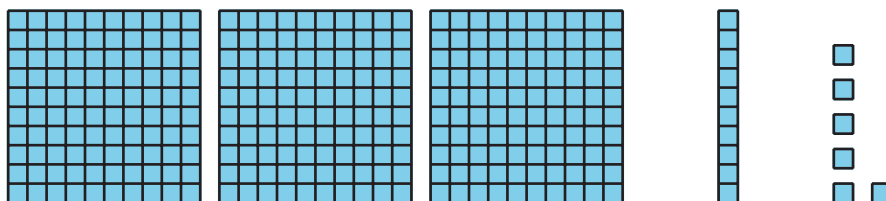
3.



Expanded form: \_\_\_\_\_

3-digit number: \_\_\_\_\_

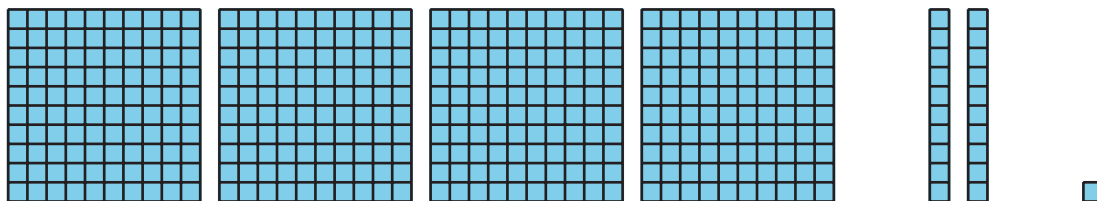
4.



Expanded form: \_\_\_\_\_

3-digit number: \_\_\_\_\_

5.



Expanded form: \_\_\_\_\_

3-digit number: \_\_\_\_\_

## Activity 2

### Make It and Expand It

1. Roll the number cubes.

Make the largest number possible.

Write it as a 3-digit number. \_\_\_\_\_

Write it in expanded form.

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2. Roll the number cubes.

Make the smallest number possible.

Write it as a 3-digit number. \_\_\_\_\_

Write it in expanded form.

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3. Roll the number cubes.

Use the same digits. Make a different number than your partner.

Write it in expanded form.

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Write it as a 3-digit number. \_\_\_\_\_

