

## Lesson 5: Expanded Form of Numbers

- Let's represent three-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.

- $800 + 90 + 7 = 897$

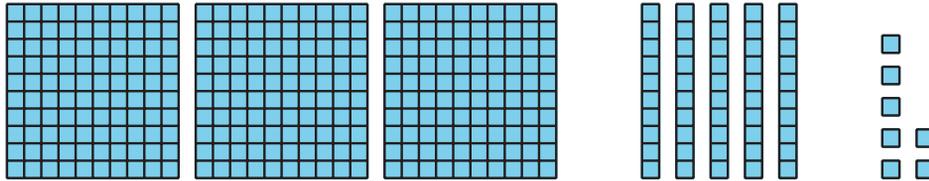
- $156 = 50 + 100 + 6$

- $407 = 70 + 400$

- $632 = 22 + 10 + 600$

## 5.1: Expressions and Three-digit Numbers

1. Andre has 3 hundreds. Tyler has 5 tens. Mai has 7 ones. They want to represent the amount they have using an equation.



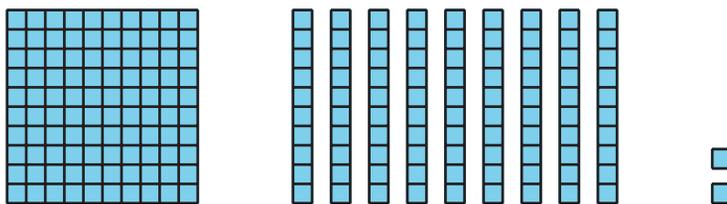
Write an expression to represent the sum of their values.

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

Write the total value as a three-digit number:

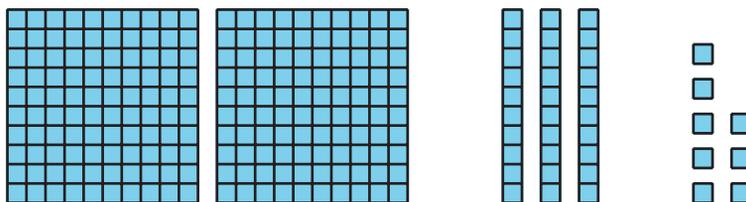
\_\_\_\_\_

Write each number as the sum of hundreds, tens, and ones, and as a three-digit number.



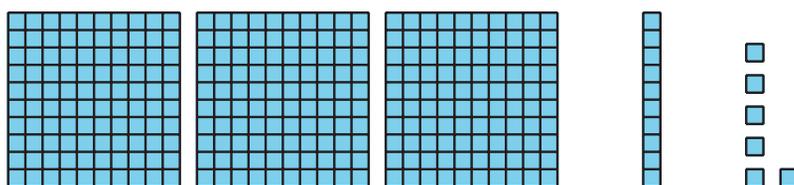
2. Expanded form: \_\_\_\_\_

Three-digit number: \_\_\_\_\_



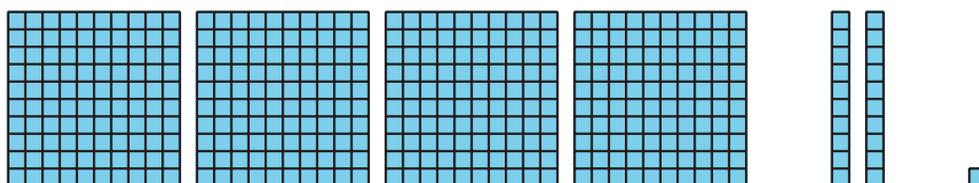
3. Expanded form: \_\_\_\_\_

Three-digit number: \_\_\_\_\_



4. Expanded form: \_\_\_\_\_

Three-digit number: \_\_\_\_\_



5. Expanded form: \_\_\_\_\_

Three-digit number: \_\_\_\_\_

## 5.2: Make It and Expand It

1. Roll the number cubes.

Make the largest number possible.

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

Write it in expanded form.

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3. Roll the number cubes.

Using the same digits, make a number different from your partner's.

Write it in expanded form.

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

