3 **Module 1**

ORIGO
STEPPING STONES **2.0**

Core Focus

- Number: Writing four-digit numerals and number names
- Number: Locating three- and four-digit numbers on a number line
- Multiplication: Introducing the multiplication symbol and fives and tens facts

Number

- Once base-10 place value is understood for numbers in the hundreds, students know just about everything necessary to work with three- and four-digit numbers.

- In this module, students extend their understanding of one-, two-, and three-digit numbers to four-digit numbers using tools like **place-value charts**.

In this lesson, students use base-10 blocks and numeral expanders to write four-digit numbers.

- Essential base-10 concepts are practiced by locating numbers on a number line; comparing and ordering numbers; and working with place value using mathematical language including *thousands*, *hundreds*, *tens*, and *ones*.


In this lesson, students use a number line to compare and order four-digit numbers.

Ideas for Home

- Read house numbers, video game scores, or highway signs to practice saying three- and four-digit numbers.

- Reinforce place-value language by asking, "How many thousands, hundreds, tens, and ones?"

Glossary

▸ A **place-value chart** is used to record large quantities into their place values.

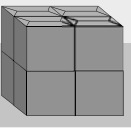| Th	H	T	Ones
1	1	6	2

3 Module I
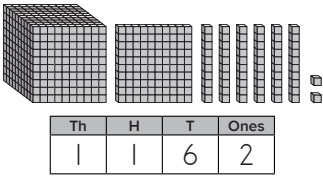
Multiplication

- Multiplication is a significant focus in Grade 3. In Grade 2, multiplication was introduced by arranging objects in an array. Now students learn to visualize a collection of equal-sized groups.

- Though multiplication concepts were presented in Grade 2, the actual symbol for multiplication is introduced in this module, as well as formal **multiplication equations**.

In this lesson, students are introduced to the symbol × for multiplication equations.

- Understanding the **commutative property** for multiplication can make some calculations easier to do, especially when students visualize multiplication as arrays.
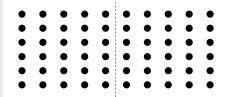
In this lesson, an array is used to show how a known tens fact can help figure out a fives fact.

Ideas for Home

- Look for groups of five and ten in your home, at the store, and around your neighborhood.

- Ask your child to solve real-world problems, such as, "If there are 4 people in our family, and each person eats 5 apples a week, then how many apples do we need to buy at the grocery store?" Remember to ask them to explain how they know.

Glossary

▸ This is a **multiplication equation**. Any equation must include the equal symbol (=).

$$4 \times 5 = 20$$

factors   product

▸ The **commutative property** describes how the order of the factors can be changed without affecting the product.

$$4 \times 5 = 20 = 5 \times 4$$

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