

KEY CONCEPT OVERVIEW

Lessons 1 through 4 focus on understanding **place value** and representing numbers up to 1 million in different forms, including on a **place value chart**. The lessons emphasize that each place value is 10 times as much as the value of the place to its right.

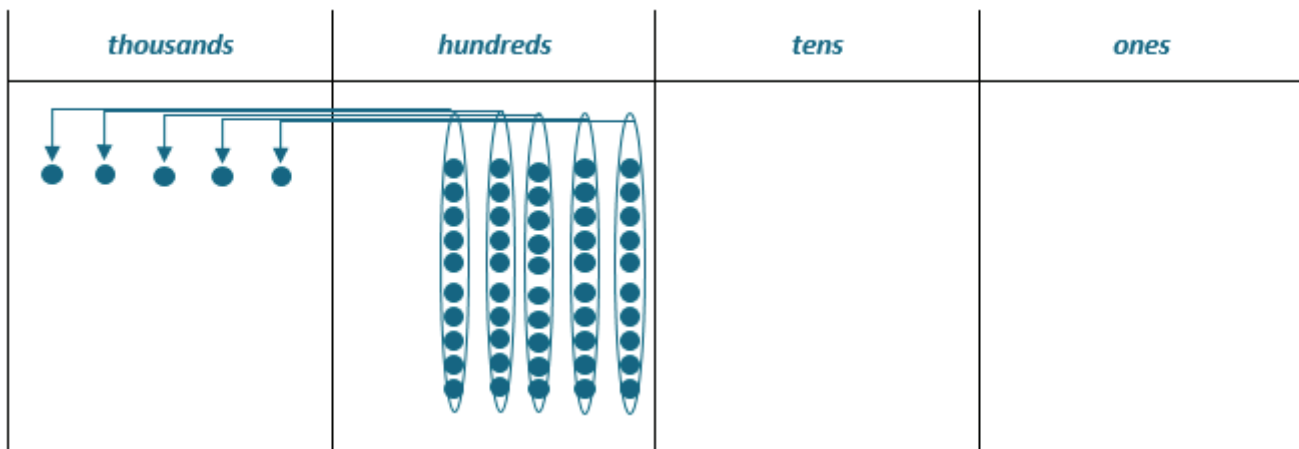
You can expect to see homework that asks your child to do the following:

- Label place value charts (up to millions), draw disks, and show regroupings (as shown in the sample problem below).
- Multiply and divide by 10 using the place value chart.
- Write numbers in the following forms:
 - Unit form (e.g., 4 thousands 3 hundreds 2 ones),
 - Standard form (e.g., 4,302),
 - Expanded form (e.g., $4,000 + 300 + 2$), and
 - Word form (e.g., four thousand, three hundred two).

SAMPLE PROBLEM (From Lesson 1)

Label the place value chart. Fill in the blanks to make the **equation** true. Draw disks in the place value chart to show how you got your answer, using arrows to show any regrouping.

$$5 \text{ hundreds} \times 10 = \underline{50} \text{ hundreds} = \underline{5} \text{ thousands}$$



Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

HOW YOU CAN HELP AT HOME

- Support your child as he draws and labels a place value chart (up to millions). Ask him to say a large number (up to 1 million). Represent the number on the place value chart using cereal pieces for disks. Challenge each other to say the name of the number that was created, using the number forms previously listed.
- Ask your child to think of a number less than 1 million. See how many different ways she can represent the number in unit form (e.g., 2,345 as 23 hundreds 4 tens 5 ones; 2,345 ones; or 234 tens 5 ones). Writing the number within a place value chart might be helpful in this process.
- Challenge your child (and the rest of the family!) to skip-counting contests, going forward and backward, by threes, fours, sixes, sevens, eights, and nines (e.g., 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 27, 24, 21, 18, 15, 12, 9, 6, 3, 0). Take turns saying the numbers. First, you give a number. Then your child gives a number. Help each other to stay on track!

TERMS

Equation: A statement that two expressions are equal. For example, $2,349 + 32,401 = \underline{\quad}$ or $2,349 + 32,401 = 34,750$.

Place value: The value of a given digit based on its position in a number. For example, the place value of the digit 2 in 235 is 200 (i.e., 2 hundreds).

MODELS**Place Value Chart**

| millions | hundred thousands | ten thousands | thousands | hundreds | tens | ones |
|----------|-------------------|---------------|-----------|----------|------|------|
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