

## Grade 4 Mathematics Unit Preview

### Quarter 1: Number Relationships and Computation (Place Value)

Objectives: (Your student will be able to)

- **Identify the place value and state the value of each digit in a given numeral to 1,000,000.** For example, in 546, the place value of the underlined digit is hundreds, the value is 500.
- **Read, write, and compare (using  $<$ ,  $>$ ,  $=$ ) numerals to 1,000,000.**
- **Write numbers in expanded notation.** For example,  $3,457 = 3000 + 400 + 50 + 7$  or 3 thousands + 4 hundreds + 5 tens + 7 ones.
- **Add or subtract four-digit numbers presented horizontally and vertically with regrouping.**
- **Estimate sum and difference of two numbers using rounding.**
- **Write or solve a problem that involves addition and subtraction of whole numbers.**

Vocabulary: (Words your student will need to understand)

<ul style="list-style-type: none"> <li>• <b>Round:</b> To find the nearest ten, hundred, or thousand (and so on). For example, 391 rounds up to 400 and 331 rounds down to 300.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Estimate:</b> An approximate calculation that is close to the exact number based on rounding.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Compare:</b> Tell how a number is related to another number using <math>&gt;</math>, <math>&lt;</math>, <math>=</math>, or <math>\neq</math>.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Regrouping:</b> To exchange amounts of equal value to rename a number.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Expanded form:</b> Writing a number as the sum of the values of each digit</li> </ul>	

Activities to do with your student (in addition to homework, optional):

- Make-up numbers, roll numbers with dice, or find numbers (on labels) and compare them.
- Find numbers and write them in expanded form.
- Make numbers and tell which place value (and/or value) each digit represents.
- Place large numbers on a number line.
- Collect objects (i.e. cheerios) and estimate how many.
- Draw pictures or make models of numbers.
- Practice addition and subtraction facts.
- Practice multiplication and division facts.

