



A Story of Units...

Building on Operations

Third grade begins the year by expanding on our 2nd grade introduction to multiplication and division. The first module focuses on properties of multiplication and division. After the first module, the third graders will dive into place value, problem solving, and units of measure in Module 2.

multiplication

$$\begin{array}{ccccccc} & & \text{coefficients} & & & & \\ & & \text{---} & & & & \\ \boxed{3} & \times & \boxed{5} & = & \boxed{15} & & \\ \text{multiplicand} & & \text{multiplier} & = & \text{product} & & \end{array}$$

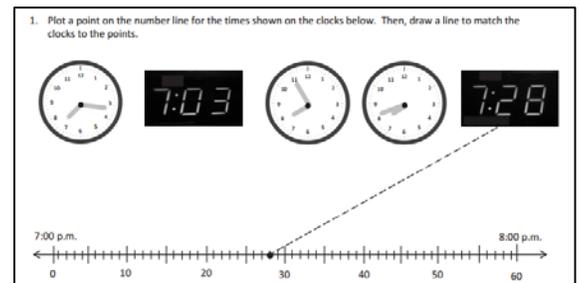
$3 \times 5 = 3 + 3 + 3 + 3 + 3$ (five threes)
 $= 5 + 5 + 5$ (three fives)
 $= 15$

In Module 1 we will:

- **Abstractly** interpret products of whole numbers
- **Interpret** whole-number quotients of whole numbers
- **Solve** a variety of multiplication and division problems
- **Determine** an unknown number in a multiplication or division equation with three whole numbers
- **Apply** properties of operations as strategies
- **Understand** division as an unknown-factor problem
- **Fluently** multiply and divide within 100
- **Solve** two-step word problems using the four operations

In Module 2 we will:

- **Use** place value understanding to round whole numbers to nearest 10 or 100
- **Fluently** add and subtract within 1000 using strategies based on place value, properties
- **Tell and write** time to the nearest minute and measure time intervals in minutes
- **Measure and estimate** liquid volumes and masses using standard units



Enrichment Activities

In school, your child will...	At home, your child can...
<p>Practice rounding whole numbers by tens and hundreds.</p> <p>Solve multiplication word problems using repeated addition and consider division problems as missing part multiplication problems.</p> <p>Use scales to measure objects and improve estimation skills.</p>	<p>Round the house numbers as you go on a walk. For example, “on this block all the houses round to 300.”</p> <p>Answer questions such as “how many hands are there in our family?” using repeated addition and multiplication.</p> <p>At the grocery store, guess the volume of different sized containers (in standard units) before looking at the label.</p>

Focus Standards for Mathematical Practice

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively; students represent quantities with numerals
- Use reasoning to construct arguments and think about the reasoning of others
- Model decompositions by drawing and writing (such as 3 can be broken into 1 and 2)
- Use precision and focus when solving a problem
- Look for and make use of structure

There are _____ toys in each group.
 $15 \div 3 = \underline{\hspace{2cm}}$

Fluency Focus

The fluency practices in third grade, focus on connecting the different operations. For example, in the activity *Group Counting* students will work with multiplication as repeated addition.