



About the Mathematics in This Unit (page 1 of 2)

Dear Family,

Our class is starting a new unit about multiplication and division called *Multiple Towers and Division Stories*. During this unit, students will build on the work they did in the unit *Factors, Multiples, and Arrays*. Students will be solving multiplication problems with 2-digit numbers, division story problems, and problems about factors, multiples, and number relationships.

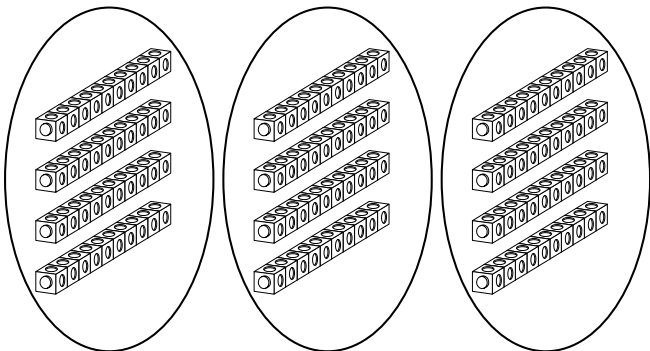
Throughout the unit, students work toward these goals:

BENCHMARKS/GOALS	EXAMPLES		
Multiply 2-digit numbers by 1-digit and small 2-digit numbers (e.g., 12, 15, 20) using strategies that involve breaking the numbers apart.	$\begin{array}{r} 37 \\ \times 6 \\ \hline \end{array}$ <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 10px;">6</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">6×30</td> <td style="padding: 5px;">6×7</td> </tr> </table> </div> <p style="margin-top: 10px;"> $6 \times 37 = (6 \times 30) + (6 \times 7)$ $6 \times 37 = 180 + 42$ $6 \times 37 = 222$ </p>	6×30	6×7
6×30	6×7		
Solve division problems (2-digit and small 3-digit numbers divided by 1-digit numbers), including some that result in a remainder.	<p>There are 52 people taking a trip. Each van holds 8 people. How many vans do they need?</p> <p>$52 \div 8 = 6 \text{ R}4$</p> <div style="text-align: center; margin-top: 10px;"> </div> <div style="text-align: center; margin-top: 10px;"> </div>		
Use story problems, pictures, or concrete models to represent division situations.	<p>Answer: They need 7 vans.</p>		

(continued)



About the Mathematics in This Unit (page 2 of 2)

BENCHMARKS/GOALS	EXAMPLES
Multiply by 10 and multiples of 10.	<p>How many cubes in all? 3 groups of 40 cubes</p>  <p>$3 \times 40 = 3 \times 4 \times 10 = 12 \times 10 = 120$</p>
Demonstrate fluency with multiplication combinations up to 12×12 .	<p>8×12 12×8 Start with $(8 \times 10) + (8 \times 2) =$ $80 + 16 = 96$</p>

Students will work on multiplication and division again later this year in the unit *How Many Packages? How Many Groups?* when they will solve problems with larger numbers and share a variety of solution strategies.

In our math class, students spend time discussing problems in depth and are asked to share their reasoning and solutions. It is most important that children accurately and efficiently solve math problems in ways that make sense to them. At home, encourage your child to explain his or her math thinking to you.

Please look for more information and activities about *Multiple Towers and Division Stories* that will be sent home in the coming weeks.