Number Puzzles and Multiple Towers   Family Letter

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

Dear Families,

Our class is starting a new unit called *Number Puzzles and Multiple Towers.* In this unit, students focus on gaining fluency with multiplication strategies. Students work on understanding division situations and developing strategies for division problems with 1-digit and 2-digit divisors.

Throughout the unit, students will be working toward these benchmarks (goals).

BENCHMARKS/ GOALS	EXAMPLES	
Find all of the factors of a number.	What are all the factors of 160? First, list the combinations. 1 × 160 5 × 32 2 × 80 8 × 20 4 × 40 10 × 16	Then, list the factors in order. 1, 2, 4, 5, 8, 10, 16, 20, 32, 40, 80, 160
Solve multiplication problems efficiently.	32 × 28 = ? First, draw a geometric model. Think of 32 as 30 + 2 and 20 + 8. 	Then, find the areas of the rectangles and add. 30 × 20 = 600 2 × 20 = 40 30 × 8 = 240 2 × 8 = 16 600 + 40 + 240 + 16 = 896

(continued)

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

BENCHMARKS/ GOALS	EXAMPLES		
Solve division problems with 1-digit and 2-digit divisors.	$256 \div 8 = ?$ First, think of this as a missing factor problem. $8 \times \underline{} = 256$	Next, break up 256 into numbers that are multiples of 8. $256 = 240 + 16$	Then, find the missing factors and add. $8 \times \underline{30} = 240$ $8 \times \underline{2} = 16$ $30 + 2 = 32$

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 *Number Puzzles and Multiple Towers* that will be sent home over the next few days.