

4TH GRADE MATH NEWSLETTER



Nov. & Dec. 2015

Our Unit 2 Math Concepts

- × Compose equations from information supplied in word problems (with all 4 operations) using letters to represent unknowns (without solving).
- × Use strategies to multiply multi-digit numbers and explain the answer using equations, rectangular arrays, and area models (up to 4-digits by 1-digit or 2-digits by 2-digits).
- × Use strategies to divide multi-digit dividends by one-digit divisors and explain the answer using equations, rectangular arrays, and area models.
- × Recognize and generate equivalent fractions and explain why they are equivalent using visual fraction models.
- × Compare two fractions with different numerators and different denominators using $>$, $<$, and $=$ and justify the comparison by using visual fraction models (recognizing the comparison is valid only when two fractions refer to the same whole).
- × Determine if a number between 1 and 100 is a prime or composite number.
- × Find all factor pairs for a whole number up to 100 and determine whether it is a multiple of a given 1-digit whole number

Multiplication and Division

A fourth grader may solve multiplication and division problems in many different ways. The strategies we teach are based on modeling and understanding place value. The standard algorithm (the way we learned how to multiply and divide) is taught after these strategies when students have a better understanding of place value, and is not mastered until 5th grade in the Common Core. Here is more information on teaching multiplication and division using alternative strategies mentioned in the Common Core State Standards.

Multiplication Information:

- [Rectangular Arrays](#)
- [Area Models](#) (x 1-digit)
- [Area Models](#) (x 2-digit)
- [Partial Products](#)

[More Multiplication Info](#)

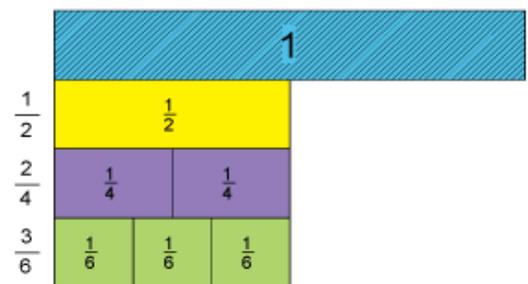
Division Information:

- [Rectangular Arrays](#)
- [Area Models](#)
- [Number Line](#)
- [Partial Quotients](#)

[More Division Info](#)

Equivalent Fraction Models

Show **one - half** in three different ways.
Show the fraction next to each set of tiles.



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