

McLean County Unit 5 Math Concepts for 4th Grade

The purpose of this page is to bridge the instruction from school with practice at home. The shift in math education is to help students gain a better understanding of concepts rather than just to memorize standard algorithms. While students are allowed to use standard algorithms, our goal is for them to have multiple ways to attack a problem and that, even if they choose not to use each of these methods, they can understand and explain how these methods work. Research shows that building this strong understanding of concepts will lead to better overall math thinkers.

With each example below, we have included a QR code which will allow you to look at this practice in action so that you can better support your child in his/her understanding.



Numbers and Operations in Base Ten: (4.NBT.5) Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers using strategies based on place value and the properties of operations.

PARTIAL PRODUCTS:

Partial-Products Multiplication

$$\begin{array}{r} 34 \\ *17 \\ \hline 300 \\ 40 \\ 210 \\ + 28 \\ \hline 578 \end{array}$$



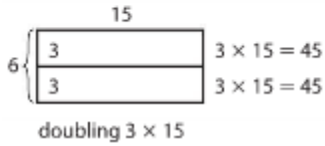
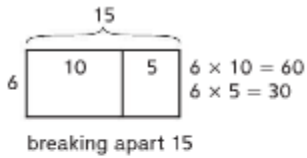
LATTICE MULTIPLICATION:

7 * 376 = 2,632

	3	7	6	
2	2	4	4	
	2	1	9	2
	6	3	2	



AREA-DECOMPOSITION MULTIPLICATION



6×15



Numbers and Operations in Base Ten: (4.NBT.6) Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division.

PARTIAL QUOTIENTS:

$$\begin{array}{r} 4 \overline{)72} \\ - 40 \\ \hline 32 \\ - 20 \\ \hline 12 \\ - 12 \\ \hline 0 \end{array} \quad \begin{array}{l} 10 \\ 5 \\ 3 \end{array}$$



EVERYDAY MATH RESOURCES: This link will take you to the Everyday math parent website which has additional resources for each unit including home links and definitions.

