

McLean County Unit 5 Math Concepts for 5th 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: (5.NBT.6) Find whole-number quotients of whole numbers with up to four digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division.

PARTIAL QUOTIENTS:

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



Numbers and Operations in Base Ten: (5.NBT.7) Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

PARTIAL SUMS:

Alignment error: When recording partial sums, students do not align the sums according to place value, so they add the partial sums incorrectly. Encourage these students to include trailing zeros when recording partial sums.

$$\begin{array}{r}
 2.84 \\
 + 4.35 \\
 \hline
 2 + 4 \rightarrow 6 \\
 0.8 + 0.3 \rightarrow 1.1 \\
 0.04 + 0.05 \rightarrow 0.09 \\
 \hline
 0.26
 \end{array}$$



COLUMN ADDITION:

	1s	0.1s	0.01s	0.001s
	2	9	6	5
+	7	4	7	0
<hr/>				
	9	13	13	5
	10	3	13	5
	10	4	3	5



TRADE FIRST SUBTRACTION:

	1s	0.1s	0.01s	0.001s
			17	
		3	7	10
	9	7	9	1
-	7	2	9	1
<hr/>				
	2	1	8	9



COUNTING-UP SUBTRACTION:

$$\begin{array}{r} 7.291 \\ + \underline{0.009} \\ \hline 7.300 \\ + \underline{0.700} \\ \hline 8.000 \\ + \underline{1.480} \\ \hline 9.480 \end{array}$$

$$0.009 + 0.700 + 1.480 = 2.189$$



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.

