

McLean County Unit 5 Math Concepts for 2nd 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: (2.NBT.5) Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

PARTIAL SUMS:

$$\begin{array}{r}
 145 \\
 + 322 \\
 \hline
 \end{array}$$

$100 + 300 \rightarrow 400$
 $40 + 20 \rightarrow 60$
 $5 + 2 \rightarrow 7$

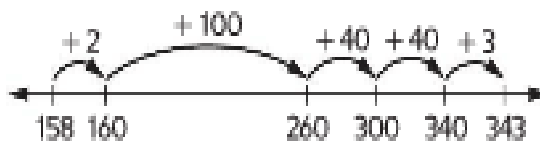
$$400 + 60 + 7 = 467$$

$$145 + 322 = 467$$



COUNT UP SUBTRACTION

$$\begin{array}{l}
 158 + 2 = 160 \\
 160 + 40 = 200 \\
 200 + 100 = 300 \\
 300 + 40 = 340 \\
 340 + 3 = 343 \\
 \hline
 2 + 40 + 100 + 40 + 3 = 185 \\
 343 - 158 = 185
 \end{array}$$



PARTIAL DIFFERENCES:

$$642 - 379 = ?$$

Subtract the 100's: $600 - 300 = 300$
Use a "+" sign because the bottom number is smaller.

Subtract the 10's: $40 - 70 = 30$
Use a "-" sign because the top number is smaller.

Subtract the 1's: $2 - 9 = 7$
Use a "-" sign because the top number is smaller.

$$\begin{array}{r}
 642 \\
 - 379 \\
 \hline
 +300 \\
 -30 \\
 -7 \\
 \hline
 263
 \end{array}$$

Total the "partial differences" to find your difference.

$$642 - 379 = 263$$



EXPAND AND TRADE SUBTRACTION:

$$\begin{array}{r} 53 \rightarrow \cancel{3}00 + \cancel{5}0 + \cancel{3} \\ - 168 \rightarrow \underline{100 + 60 + 8} \\ \hline 100 + 80 + 5 = 185 \end{array}$$



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.



BEDTIME MATH: Looking for another way to help your child at home with math? Consider getting this app to use at home with your child.

