

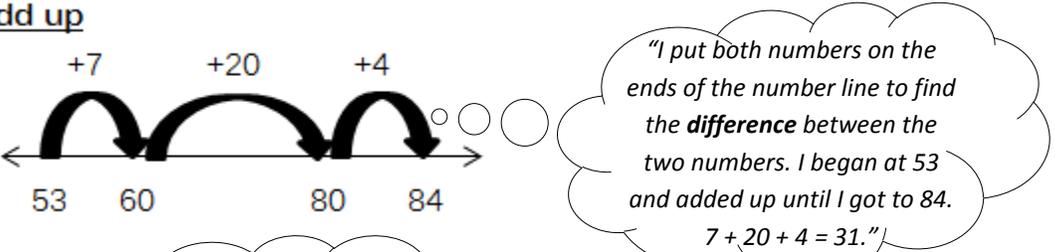
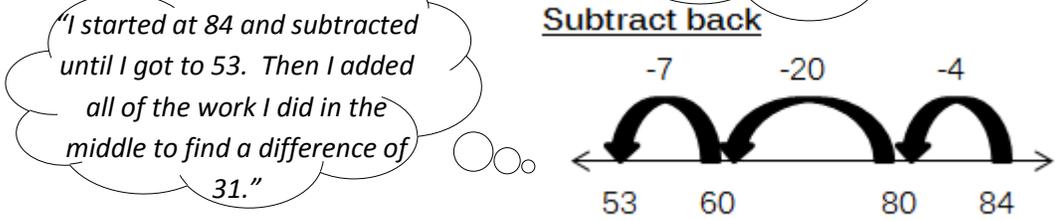
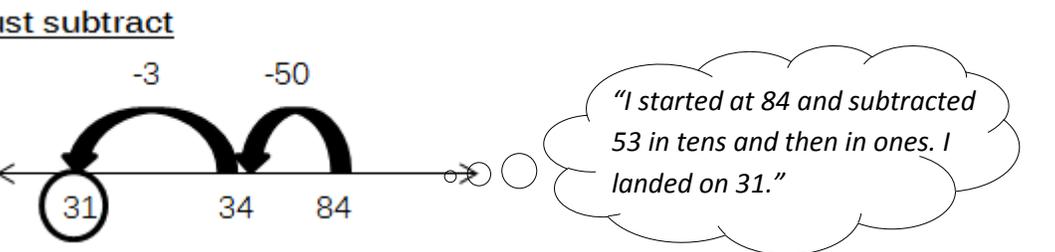
# Grade 3 Important Math Information

## Three-Digit Addition, Subtraction and Place Value

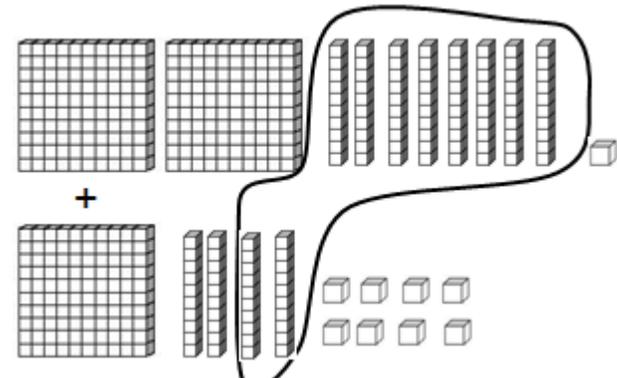
Dear Family,

We are beginning a new unit of study called *Three-Digit Addition, Subtraction and Place Value*. In this unit of study, students will build upon their previous knowledge of making 10 to help them make combinations that add to 100. Students will show understanding of place value as they solve two- and three-digit addition and subtraction problems up to 1,000. The specific learning goals your student will be working toward are listed below with examples of student work showing understanding of each learning goal.

**Learning Goal:** Solve three-digit addition and subtraction problems, using various strategies, and be able to explain the strategies used.

Example Problems	Example Student Solutions
$\begin{array}{r} 286 \\ + 138 \\ \hline \end{array}$	<p><u>Break numbers apart by place value</u></p> $\begin{array}{r} 286 \\ + 138 \\ \hline 300 \\ 110 \\ + 14 \\ \hline 424 \end{array}$ <p>because when I add the hundreds: <math>200 + 100 = 300</math>  because when I add the tens: <math>80 + 30 = 110</math>  because when I add the ones: <math>6 + 8 = 14</math>  since <math>300 + 110 + 14 = 424</math></p>
<p>The rainbow snake at the Nature Center is 53 inches long. The boa constrictor is 84 inches long. How much longer is the boa constrictor?</p>	<p><u>Add up</u></p>  <p><u>Subtract back</u></p>  <p><u>Just subtract</u></p>  <p>The boa constrictor is <span style="border: 1px solid black; padding: 2px;">31</span> inches longer than the rainbow snake.</p>

**Learning Goal:** Use place value understanding to round numbers to the nearest ten or hundred.

Example Problem	Example Student Solutions
<p>Estimate the number of hundreds in the following sum.</p> <p><math>281 + 148 =</math> _____ hundreds</p>	<p><math>281 + 148 =</math> _____ hundreds</p> <p>↓ ↓</p> <p><math>300 + 100 =</math> about 4 hundreds</p> <p><i>"The closest hundred to 281 is 300. The closest hundred to 148 is 100. 300 and 100 added together make 400."</i></p> <p><i>"I drew pictures to represent both numbers. I see 3 hundreds, but the 8 tens and 4 tens will make another hundred. There are 4 hundreds and some extras."</i></p> 

**Mathematical Thinking and Practices Learning Goal:** Persevere to understand problems and solve them using multiple strategies.



**Things you can do at home to support your student throughout this unit of study:**

Make addition fact cards that your student can practice daily. Have him/her explain his/her thinking. *Example: "7 + 8 = 15 because I know 7 + 7 = 14, and 7 + 8 is one more."*

Practice addition strategies while shopping. When you buy an item, ask your student to estimate how much two of them would cost. Add up the exact cost of a few grocery items.

Collect 1,000 small objects (pebbles, paper clips, coins, popsicle sticks, etc.) together to see what 1,000 items look like. Group them in 100's to keep track.