

# Add Three-Digit Numbers



Dear Family,

This week your child is using different strategies to add three-digit numbers.

For example, one way to use **place value** to find the sum of  $153 + 260$  is shown below.

You can add the ones first, then add the tens, and then add the hundreds, writing each sum on a line by itself. Then you add the three **partial sums** to get the total.

$$\begin{array}{r} 153 \\ + 260 \\ \hline 3 \longrightarrow 3 \text{ ones} + 0 \text{ ones} = 3 \text{ ones, or } 3 \\ 110 \longrightarrow 5 \text{ tens} + 6 \text{ tens} = 11 \text{ tens, or } 1 \text{ hundred} + 1 \text{ ten, or } 110 \\ 300 \longrightarrow 1 \text{ hundred} + 2 \text{ hundreds} = 3 \text{ hundreds, or } 300 \\ \hline 413 \end{array}$$

Another way to solve this problem using place value is to use the standard addition **algorithm**. This involves **regrouping** when the digits in one of the place-value columns add up to 10 or more. Here is how the same addition problem would look when solved using the algorithm.

The small 1 represents the regrouped 100.

$$\begin{array}{r} 153 \\ + 260 \\ \hline 3 \end{array}$$

Add the **ones** digits:  
 $3 + 0 = 3$

$$\begin{array}{r} 1 \\ 153 \\ + 260 \\ \hline 13 \end{array}$$

Add the **tens** digits:  
 $5 + 6 = 11$   
( $50 + 60 = 110$ )

$$\begin{array}{r} 1 \\ 153 \\ + 260 \\ \hline 413 \end{array}$$

Add the **hundreds** digits:  
 $1 + 1 + 2 = 4$   
( $100 + 100 + 200 = 400$ )

Invite your child to share what they know about adding three-digit numbers by doing the following activity together.

## Learning Games



Hungry Fish



Cupcake



Pizza

## Math Tools



Base-Ten  
Blocks

## ACTIVITY ADD THREE-DIGIT NUMBERS

Do this activity with your child to add three-digit numbers.

**Materials** 3 number cubes, pencil and paper

Play this adding game with your child to practice adding three-digit numbers. The goal of this game is to get a sum greater than 500 by adding a three-digit number to 250.

- Have your child roll three number cubes.
- Ask your child to form a three-digit number from the number cubes. (If the rolls are 2, 6, and 1, the possible numbers are 126, 162, 216, 261, 612, and 621.) Write down the chosen number.
- Your child adds 250 to the number, using any addition strategy.
- If the sum is greater than 500, then your child wins the round. If not, you win the round.
- Switch roles. Play five rounds for best out of five.
- Ask your child questions during the game, such as:
  - *Does it matter which number I form out of the three number cubes? How will it change the sum?*
  - *How can I pick my number to make sure my sum is as great as possible?*

