Meanings of Addition and Subtraction

We add two parts to find the whole.
We subtract one part from the whole to find the other part.

1. Paul has 6 balls.
   Amanda has 4 balls.
   How many balls are there altogether?

6 + 4 = 10
There are 10 balls altogether.
2.  $8 + 5 = 13 \quad 5 + 8 = 13$
   $13 - 5 = 8 \quad 13 - 8 = 5$

3. Maria has 45 books in her room.
   June has 24 books.
   How many books do they have altogether?

   $45 + 24 = 69$

   They have 69 books altogether.

   Carlos bought 22 stickers.
   How many stickers did Eric buy?

   $36 - 22 = 14$

   Eric bought 14 stickers.
Addition Without Renaming

When we add two numbers, we can write one number on top of the other. Make sure the digits are arranged in the correct columns.

432 + 54 = ______

In the number 54, the digit 5 stands for 5 tens. The digit 4 stands for 4 ones.

This is correct!

When we add two numbers, we can write one number on top of the other. Make sure the digits are arranged in the correct columns.

432 + 54 = ______

In the number 54, the digit 5 stands for 5 tens. The digit 4 stands for 4 ones.

This is wrong!

Add the ones.

Add the tens.

Add the hundreds.

432 + 54 = 486
Subtraction Without Renaming

When we subtract one number from another, we always write the greater number on top. Make sure the digits are arranged in the correct columns.

368 – 65 = ________

In the number 65, the digit 6 stands for 6 tens. The digit 5 stands for 5 ones.

This is wrong!

This is correct!

Subtract the ones.

Subtract the tens.

Subtract the hundreds.

368 – 65 = 303
Addition With Renaming

When there are 10 ones or more, change 10 ones for 1 ten. When there are 10 tens or more, change 10 tens for 1 hundred.

Add 156 and 176.

Add the ones.
6 ones + 6 ones = 12 ones = 1 ten 2 ones

\[\begin{array}{c}
\text{156} \\
\text{+ 176} \\
\phantom{+} \text{332}
\end{array}\]

Add the tens.
5 tens + 7 tens + 1 ten = 13 tens = 1 hundred 3 tens

\[\begin{array}{c}
\text{156} \\
\text{+ 176} \\
\phantom{+} \text{332}
\end{array}\]

Add the hundreds.

\[\begin{array}{c}
\text{156} \\
\text{+ 176} \\
\phantom{+} \text{332}
\end{array}\]
Subtraction With Renaming

When there are not enough ones to take away from, change 1 ten for 10 ones.

1. Subtract 543 from 731.

We cannot take away 3 ones from 1 one.

Change 1 ten for 10 ones.

\[
\begin{array}{r}
731 \\
543 \\
\hline
\end{array}
\]

\[
\begin{array}{r}
731 \quad \underline{211} \\
543 \\
\hline
8
\end{array}
\]

Subtract the ones.

\[
\begin{array}{r}
731 \\
543 \\
\hline
8
\end{array}
\]

Continued
When there are not enough tens to take away from, change 1 hundred to 10 tens.

We cannot take away 4 tens from 2 tens.

Change 1 hundred for 10 tens.

Subtract the tens.

\[
\begin{array}{ccc}
6 & 12 & 11 \\
- & 5 & 4 \\
\hline
8 & 8
\end{array}
\]

Subtract the hundreds.

\[
\begin{array}{ccc}
6 & 12 & 11 \\
- & 5 & 4 \\
\hline
1 & 8 & 8
\end{array}
\]

\(731 - 543 = 188\)
When there are 0 tens and ones, change 1 hundred for 9 tens and 10 ones.

2. Subtract 186 from 500.

\[
\begin{array}{ccc}
4 & 9 & 10 \\
\hline
5 & 0 & 0 \\
- & 1 & 8 & 6 \\
\hline
4 & 1 & 4 \\
\end{array}
\]

500 – 186 = 314