## Word problems <br> with carrying

## Example 1:

There are 22 bananas in a shop. A boy comes to buy 6 bananas. How many bananas are left?

## Solution :

Initial number of bananas in the shop
Number of bananas bought by the boy

$$
=22
$$

$=06$
Number of bananas left

$$
2<6
$$

Borrow from tens place.
After borrowing,
2 becomes 12
2 becomes 1

Initial number of bananas in the shop $=22$.
Number of bananas bought by the boy $=\begin{array}{ll}0 \quad 6 \quad 12-6=6 \\ 1-0 & =1\end{array}$
Number of bananas left
$=16$

Therefore, there are 16 bananas left in the shop.

## Example 2:

A baker has 13 cookies. He sells 5 cookies. How many cookies does she have left?

## Solution :

The number of cookies the baker has
Number of cookies the baker sells $=$
Number of cookies the baker has left $=$

$$
3<5
$$

Borrow from tens place.
After borrowing,

> 3 becomes 13
> 1 becomes 0

## 013

The number of cookies the baker has $=18$ Number of cookies the baker sells $=0 \quad 5 \begin{gathered}13-5=8 \\ 0-0=0\end{gathered}$
Number of cookies the baker has left $=08$

Therefore, the baker has 8 cookies left.

## Example 3:

In a first-grade class with 96 students, 39 are boys. How many are girls?

## Solution :

Total number of students in the class $=96$


Number of boys in the class
$=39$
Number of girls in the class
6<9
Borrow from tens place.
After borrowing,
6 becomes 16
9 becomes 8

## 816

Total number of students in the class $=96$
Number of boys in the class
Number of girls in the class
$=39$
$=57$

Therefore, there are 57 girls in the class.

## Example 4:

A library has 55 books in mathematics. They donate 18 books to a local school. How many books are left in the library?

## Solution :



The number of books in the library $=55$
The number of books that donated $=18$
The number of books left

$$
5<8
$$

Borrow from tens place.
After borrowing,

$$
\begin{aligned}
& 5 \text { becomes } 15 \\
& 5 \text { becomes } 4
\end{aligned}
$$

## 415

The number of books in the library $=5,5$

$$
\text { The number of books that donated }=\begin{array}{lll}
1 \quad 8 & \begin{array}{l}
15-8=7 \\
4-1=3
\end{array}
\end{array}
$$

The number of books left $=37$

Therefore, there are 37 books left in the library.

## Example 5:

A carpenter has $\mathbf{6 2}$ nails. He uses 36 nails to build a birdhouse. How many nails does he have left?

## Solution :

Initial number of nails
$=62$
Number of nails used for the birdhouse $=$ 36

Number of nails left

$$
\begin{aligned}
& 2<6 \\
& \text { Borrow from tens place. }
\end{aligned}
$$

After borrowing,

> 2 becomes 12 6 becomes 5

## 512

Initial number of nails
$=62$
Number of nails used for the birdhouse $=\begin{array}{ll}3 \quad 6 & \begin{array}{l}12-6=6 \\ 5-3=2\end{array}\end{array}$
Number of nails left
$=26$

Therefore, the carpenter has 26 nails left.

