

# Word problems 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 = 2

Number of bananas bought by the boy = 0

Number of bananas left =

2 < 6

Borrow from tens place.

After borrowing,

2 becomes 12

2 becomes 1

1 12

Initial number of bananas in the shop = 22

Number of bananas bought by the boy = 0 6 12-6=61-0=1

Number of bananas left = 1 6

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 = 1 3



Number of cookies the baker sells = 0



Number of cookies the baker has left =

3 < 5

Borrow from tens place.

After borrowing,

3 becomes 13

1 becomes 0

0 13

The number of cookies the baker has = 1 3

Number of cookies the baker sells = 0 5 13-5=8 0-0=0

Number of cookies the baker has left = 0 8

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 = 9

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

8 16

Total number of students in the class = 9

Number of boys in the class = 3 9

Number of girls in the class = 5 7

Therefore, there are 57 girls in the class.

16 - 9 = 7

8 - 3 = 5



# 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 = 5

The number of books that donated = 1 8

The number of books left =

5 < 8

Borrow from tens place.

After borrowing,

5 becomes 15

5 becomes 4

4 15

The number of books in the library = 5

The number of books that donated =  $\begin{bmatrix} 1 & 8 \\ 4-1=3 \end{bmatrix}$ 

The number of books left = 3 7

Therefore, there are 37 books left in the library.



# Example 5:

A carpenter has 62 nails. He uses 36 nails to build a birdhouse. How many nails does he have left?

### **Solution:**

Initial number of nails

Number of nails used for the birdhouse =

Number of nails left

2 < 6

Borrow from tens place.

After borrowing,

2 becomes 12

6 becomes 5

5 12

Initial number of nails

= 6 2

Number of nails used for the birdhouse =

Number of nails left

Therefore, the carpenter has 26 nails left.