INTRODUCTION TO PLACE VALUES

GUIDELINES

What?

Place value is the basis of our entire number system. A **place value** system is one in which the position of a digit in a number determines its **value**. In the standard system, called base ten, each **place** represents ten times the **value** of the **place** to its right.

Why?

Place value is an extremely important concept that is taught as early as kindergarten. As children learn about larger numbers, the concept of place value continues throughout the middle grades.

Place value refers to the value of the digit based on its position and can be a difficult concept for young learners to grasp, but understanding this idea is essential for learning math.

How?

Create simple **place value** charts that are reusable by including a **place** for hundreds, tens, and ones. This layout mimics the way the number is written from left to right. In the ones section, ensure that there are two ten-frames to promote the concept of a group of ten and eliminate the need for one-by-one counting.

Teaching Instructions

Teach the child with blocks or objects grouped together and placed in rows as mentioned in the module.

After learning this module, ask the child to identify place values of random numbers which you come across anywhere

Do you know what Place Value means?

Ever wondered about it?

Let us learn this using your toys, dried bean, pieces of paper or whatever you like.

Good fun to learn math with your toys right?

Place value is how much each number is worth, based on where that it is place in a row of numbers.

Don't worry, you can get hold of the concept soon..

Let us learn this together.

Ready?

Let us learn this with marbles.

Take 13 marbles

Keep 10 marbles in one group,

and

3 in another group.
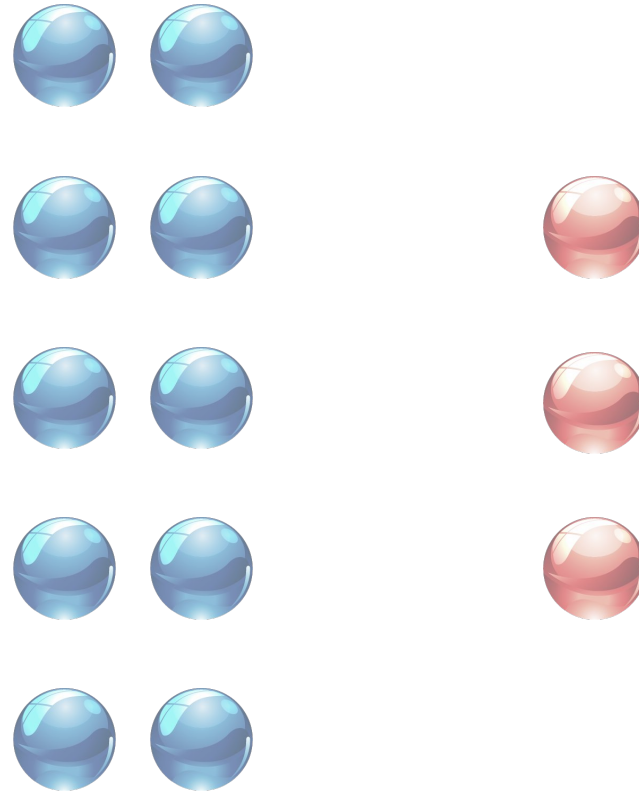
10   +   3
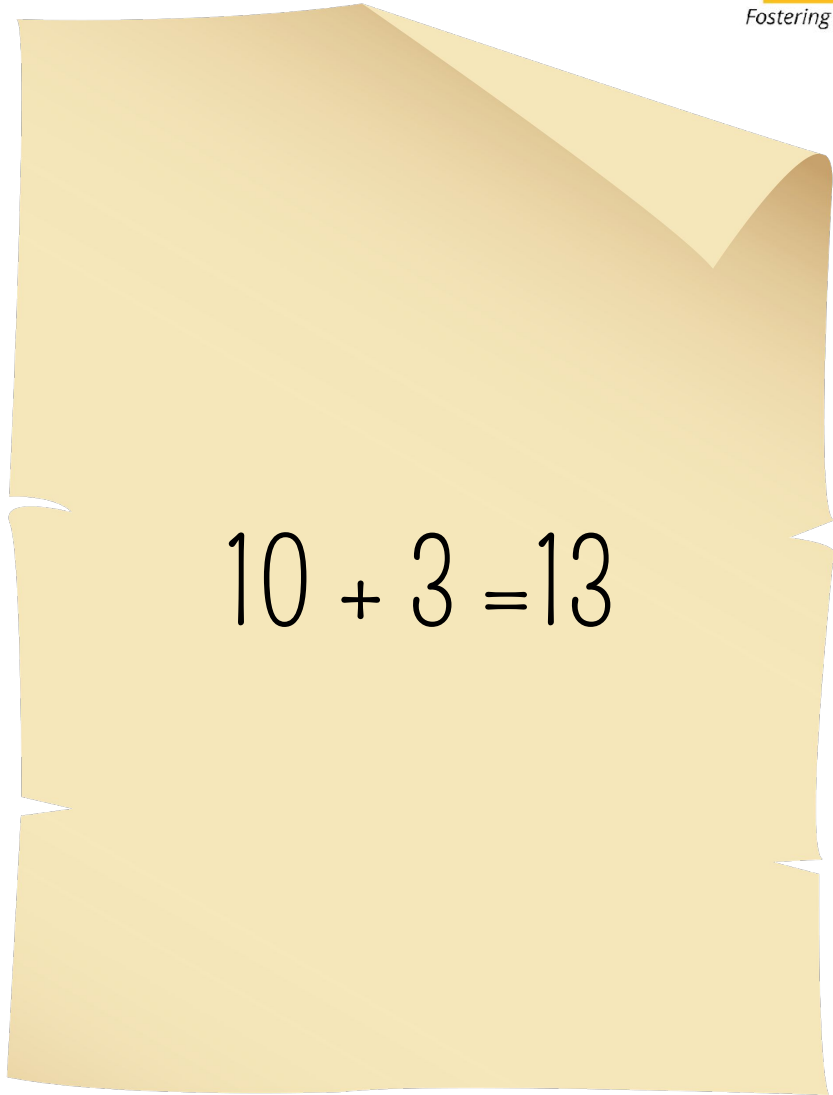
Write the numbers on a sheet of paper 10 and 3

The 10 marbles in one group is called as

1 tens group and

the 3 marbles in another group is called as 3 one's group.

It is represented as 10 + 3 = 13

$$10 + 3 = 13$$

What we have here is two groups of numbers.
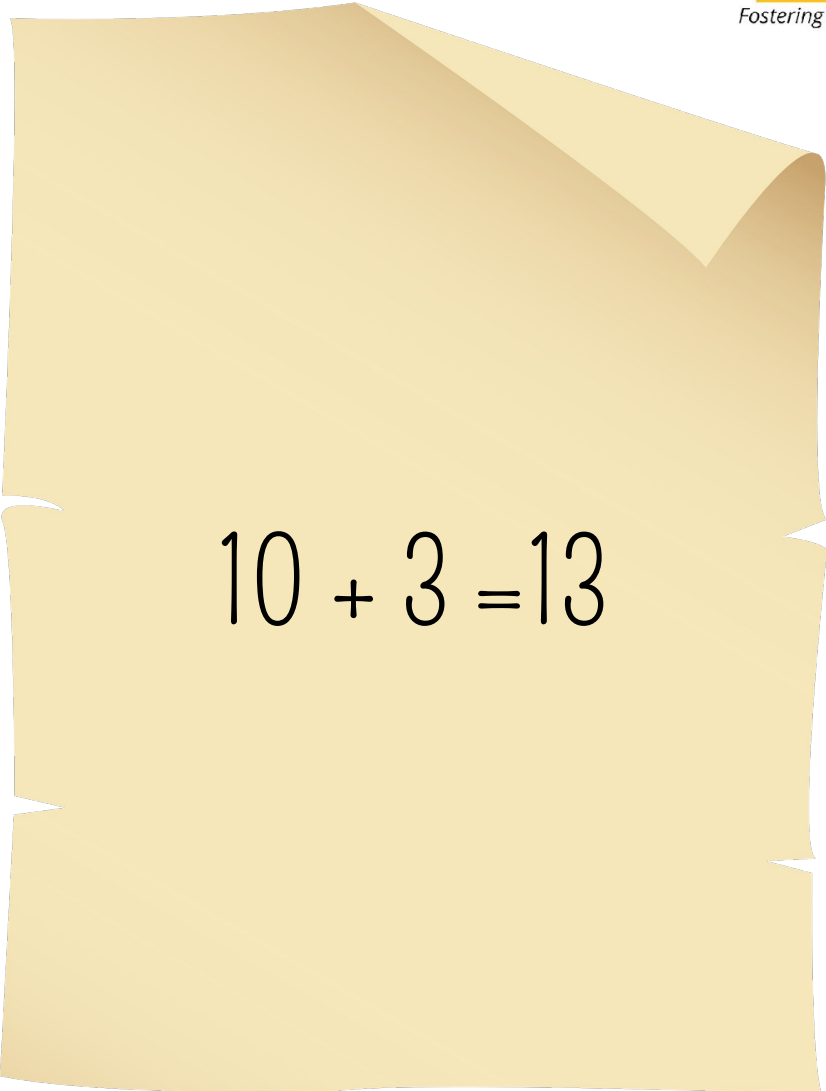
10 + 3 which when added becomes 13.

13 has two digits.

1 and 3

In math, they are placed one next to the other as they represent a certain value.

Hence the name **Place Values**

$$10 + 3 = 13$$

Let us see what is the value of each digit in number 13.
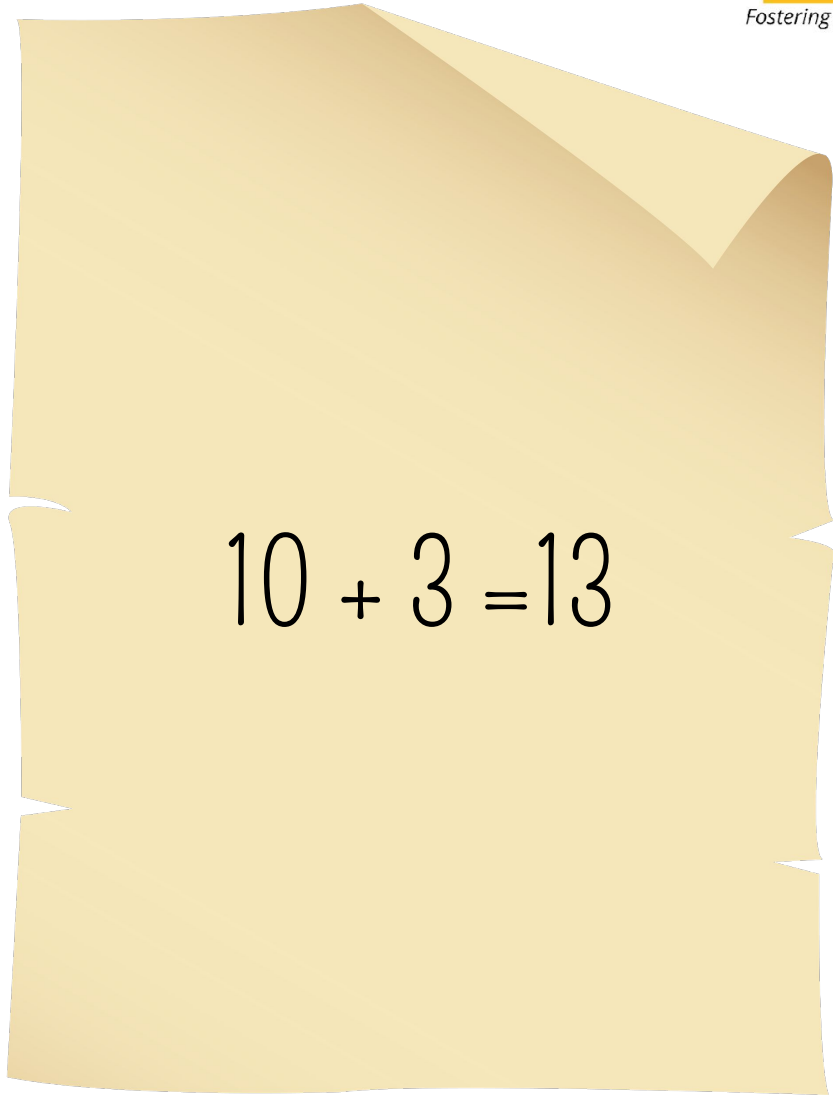
10 + 3

Number 10 has 2 digits.

The place value of is 0 is called place value **unit or one**

The place value of number 1 in 10 is called place value **tens**

Guess it is a bit confusing? Not to worry, we can work these by practicing.

$$10 + 3 = 13$$

Shall we try some exercise to get a better idea about place values?

Shall we?

1. Circle the numbers which has **2** in units place.

18   12   28

Will you try now? No peeking at the answers! :)

2. Circle the numbers which has 6 in units place.

36   32   14

Let's look at the answers

36   **32**   **14**

3. Circle the numbers which has **4** in tens place.

41   14   12

Let's look at the answers

41   14   12

16

4. Circle the numbers which have **1** in units place.

11   21   18

Answers

11 21 18

5. Circle the numbers which has **2** in tens place.

23   12   25

5. Circle the numbers which has **2** in tens place.

23   12   25

Very good! Let us look at another method of understanding place values.
You will love this.!

These are pictures grouped into tens and ones.

Find out which group belongs to the tens group and which group belongs to ones group.

Mark **T** for Tens place and
O for ones place.

As always, the first question has been solved for you.

12

T 1

O 2

21

T 2

O 1

33

Answer

T 3

O 3

19

T 1
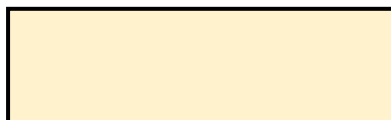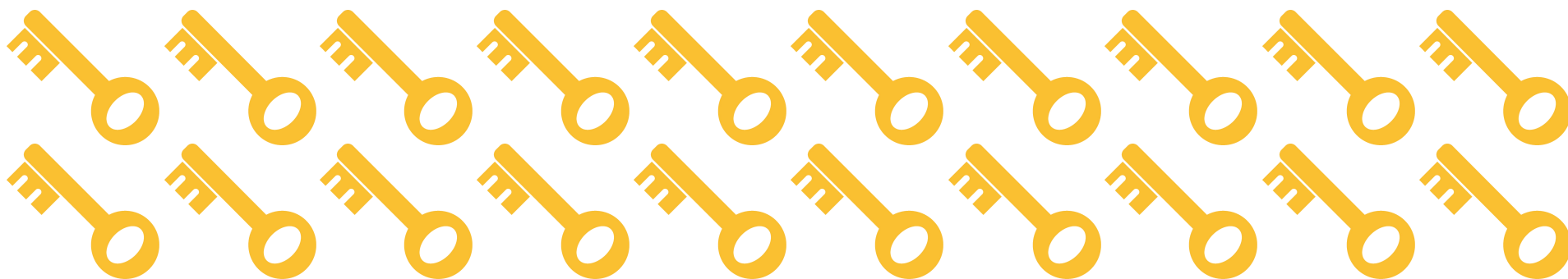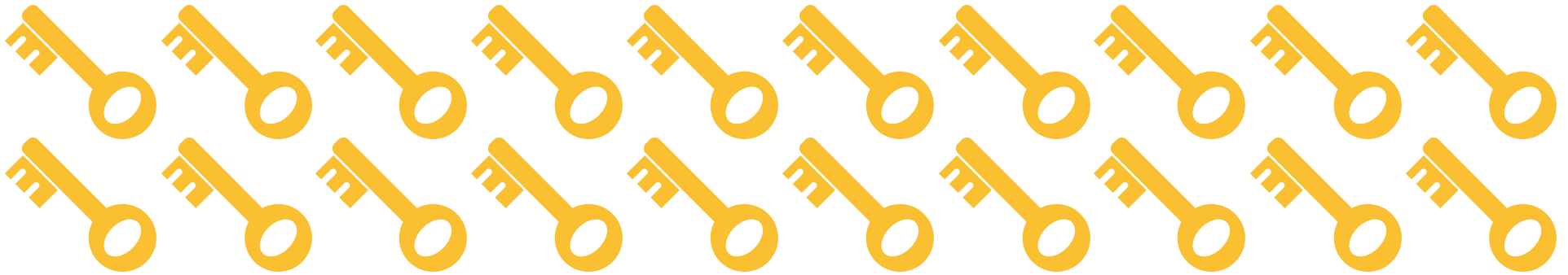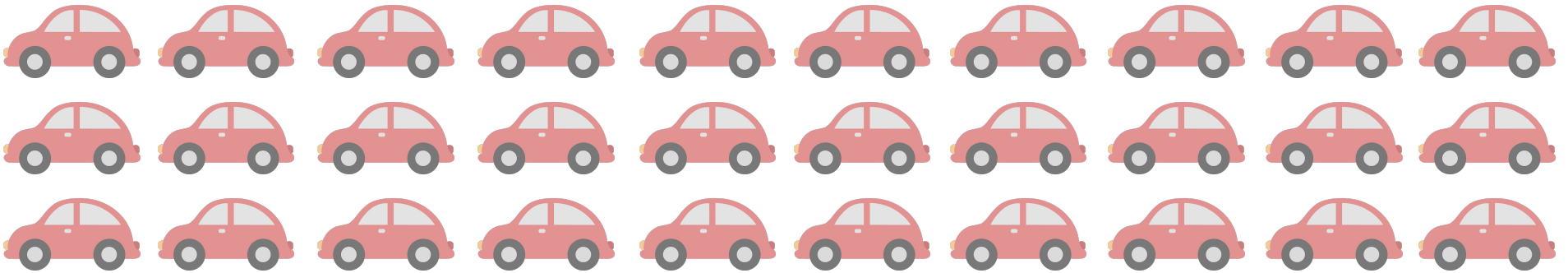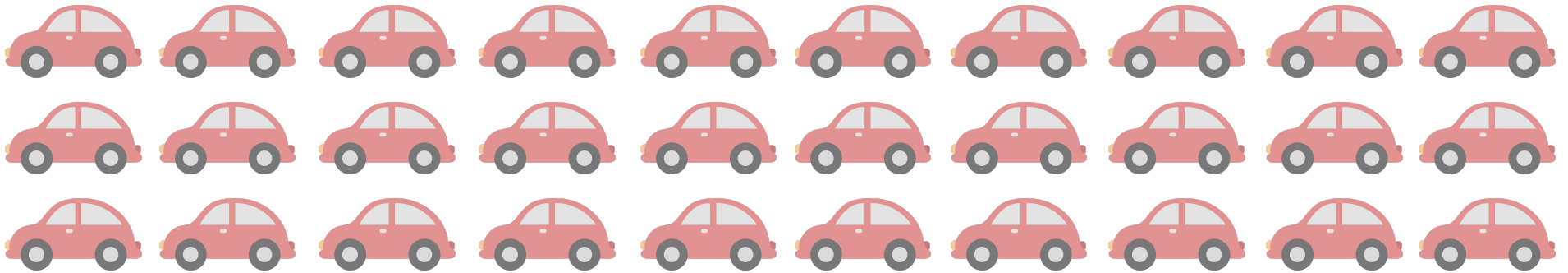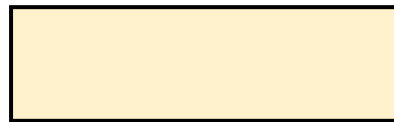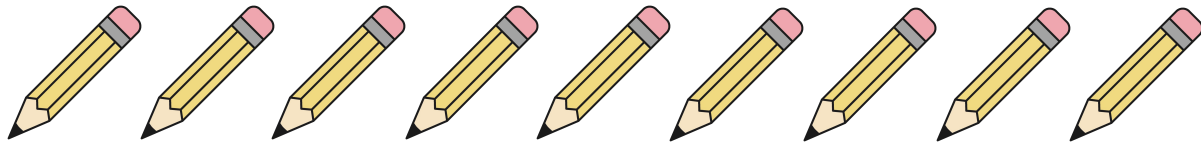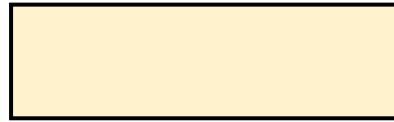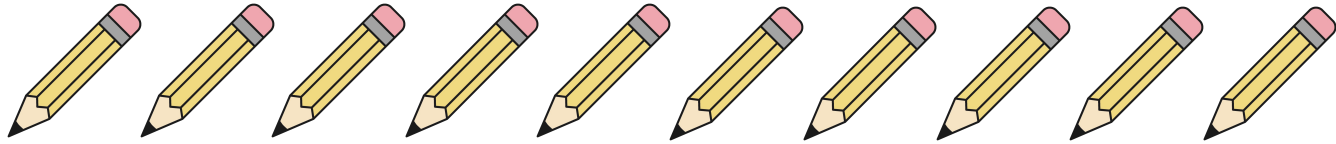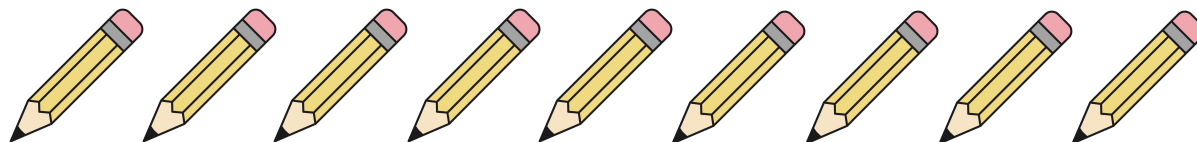
O 9

45
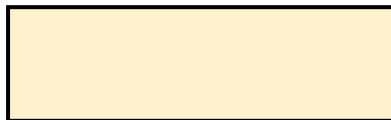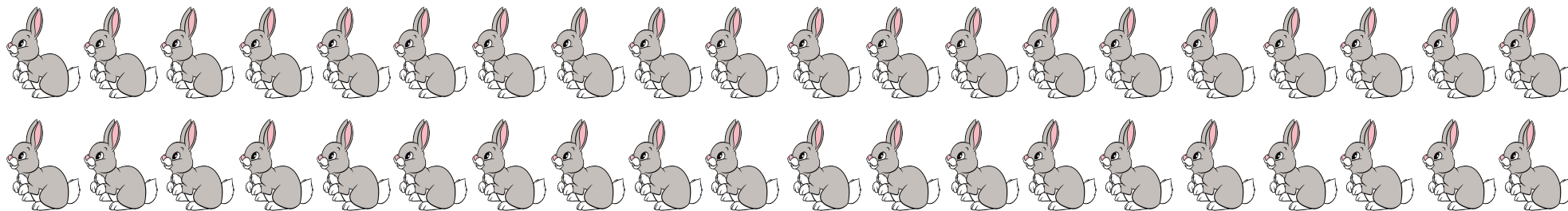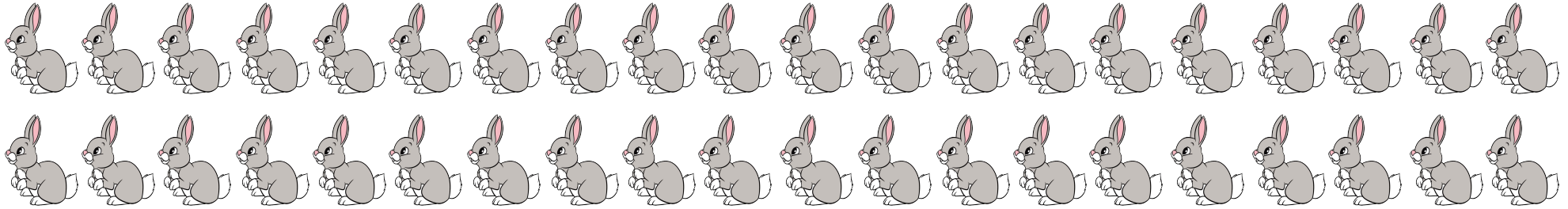
Answer

T 4

O 5

Let us try another one.

These pictures are grouped into Tens and Units place.

Identify the number from the picture and write down appropriately.

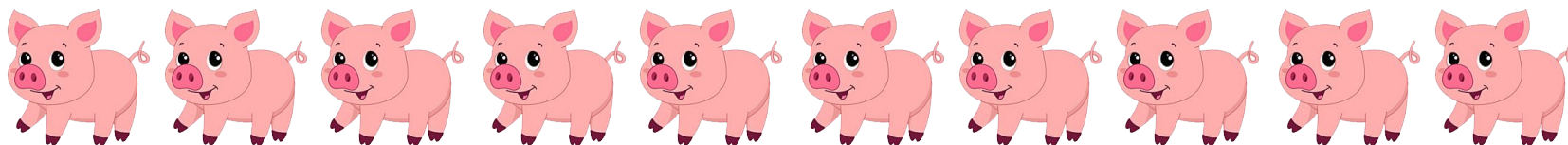First question has been solved for you :)

1)

T 2
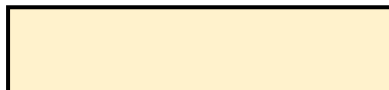

O 4

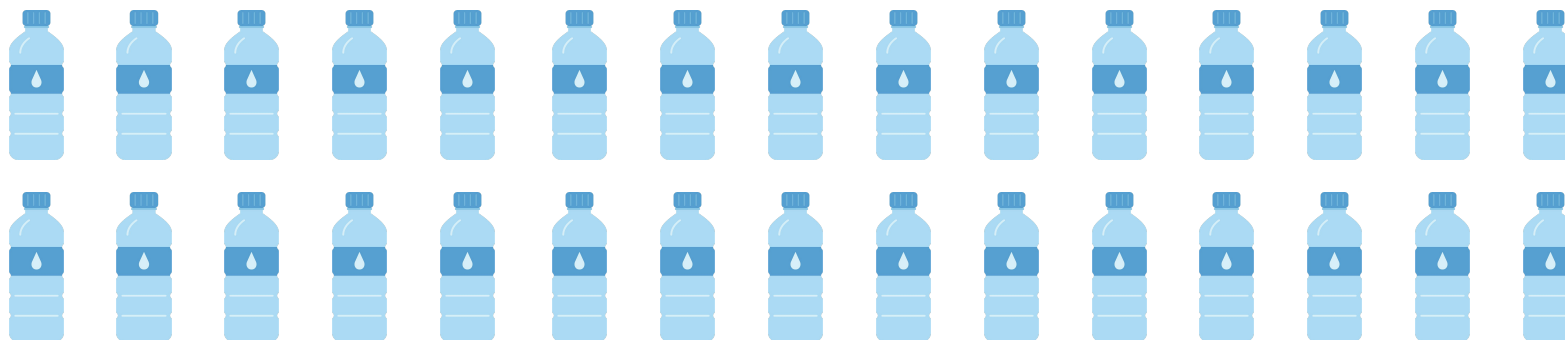| 24 |
| --- |

2)

T 1

O 1
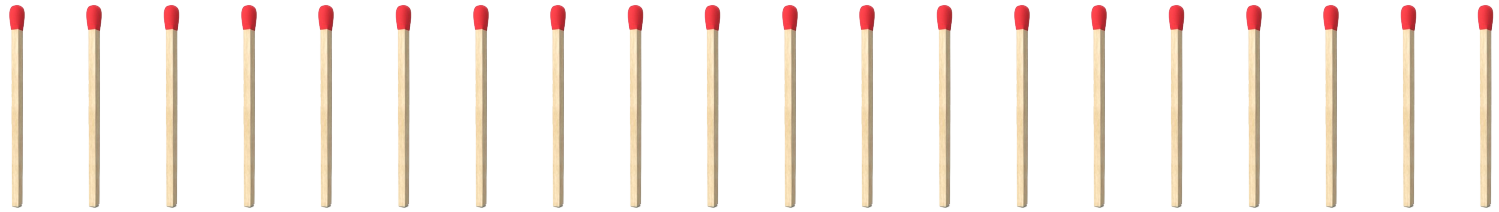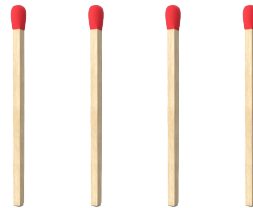
2).

T 1

O 1

11

3)

T 3

O 4

Answer

3).
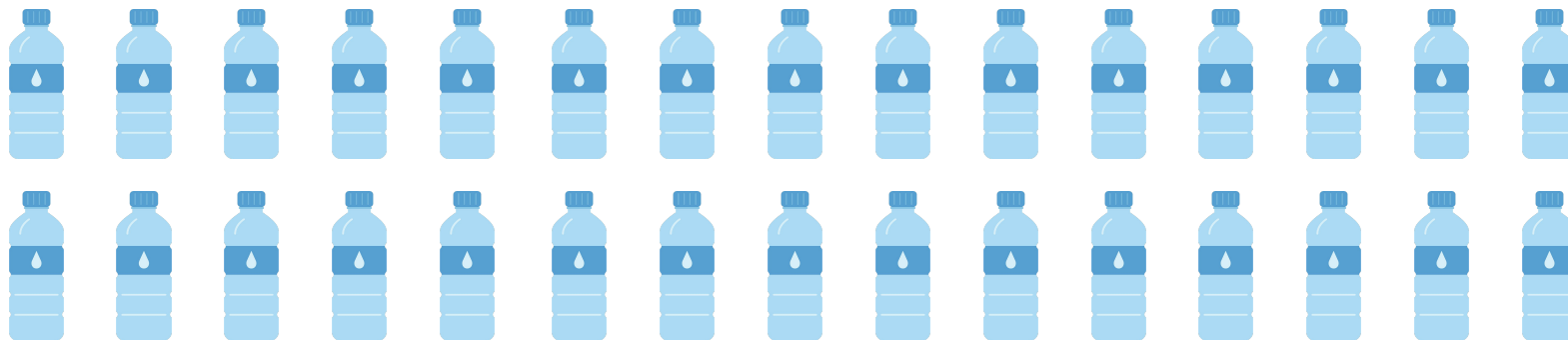
T 3

O 4

34

4)

T 4
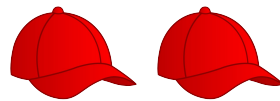
O 2

Answer

4).

T 4

O 2

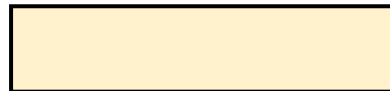| 42 |
|----|

5)
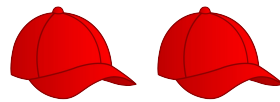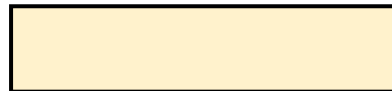

T 1

O 6

5).

T 1

O 6

16

I am sure you have mastered the Tens and Ones place.

Keep practicing!

Happy learning!