MATH 1

CHAPTER 5: ADDITION

ADDITION

➢ INTRODUCTION

Concept of Addition

Addition means collection of different units together and counting them as single unit.

Let's understand this through an Example:

Example:

There are three balls in box A

Three balls

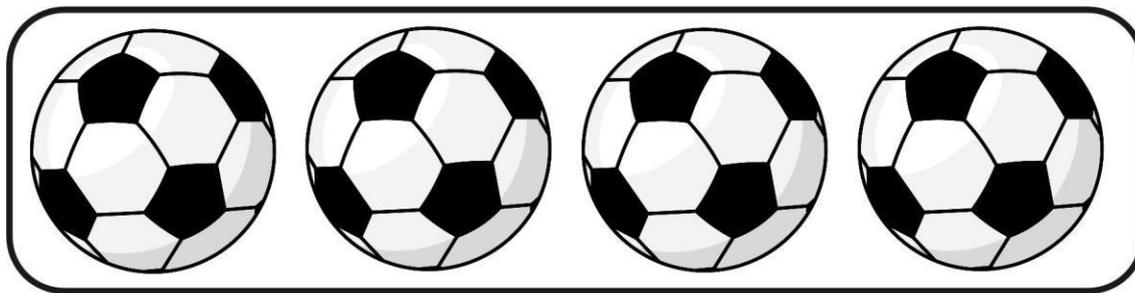There are two balls in another box B

One ball

Now,

How many balls are there in both the boxes together?

(1)

For this, we put the balls from both the boxes in a single box as shown below:

Four balls

Therefore, the third box has three balls of box A and one ball of box B. Together there are 4 balls.

Adding Two Numbers

Let us understand with the help of an example:

Tiya makes 5 paper boats and floats them in the pond. John makes 3 paper boats and floats them in the pond.

How many paper boats are there in the pond?

This problem can be solved by adding the number of boats made by Tiya and John.

Amazing Facts

If you add up the number 1-100 consecutively (1 + 2 + 3 + 4 + 5…) the total is 5050.

The opposite side of a die always add up to seven (7).

Example:

How many apples in the basket_____.

(a) 5

(b) 10

(c) 3

(d) 2

Answsssssser- (b)

Questions:
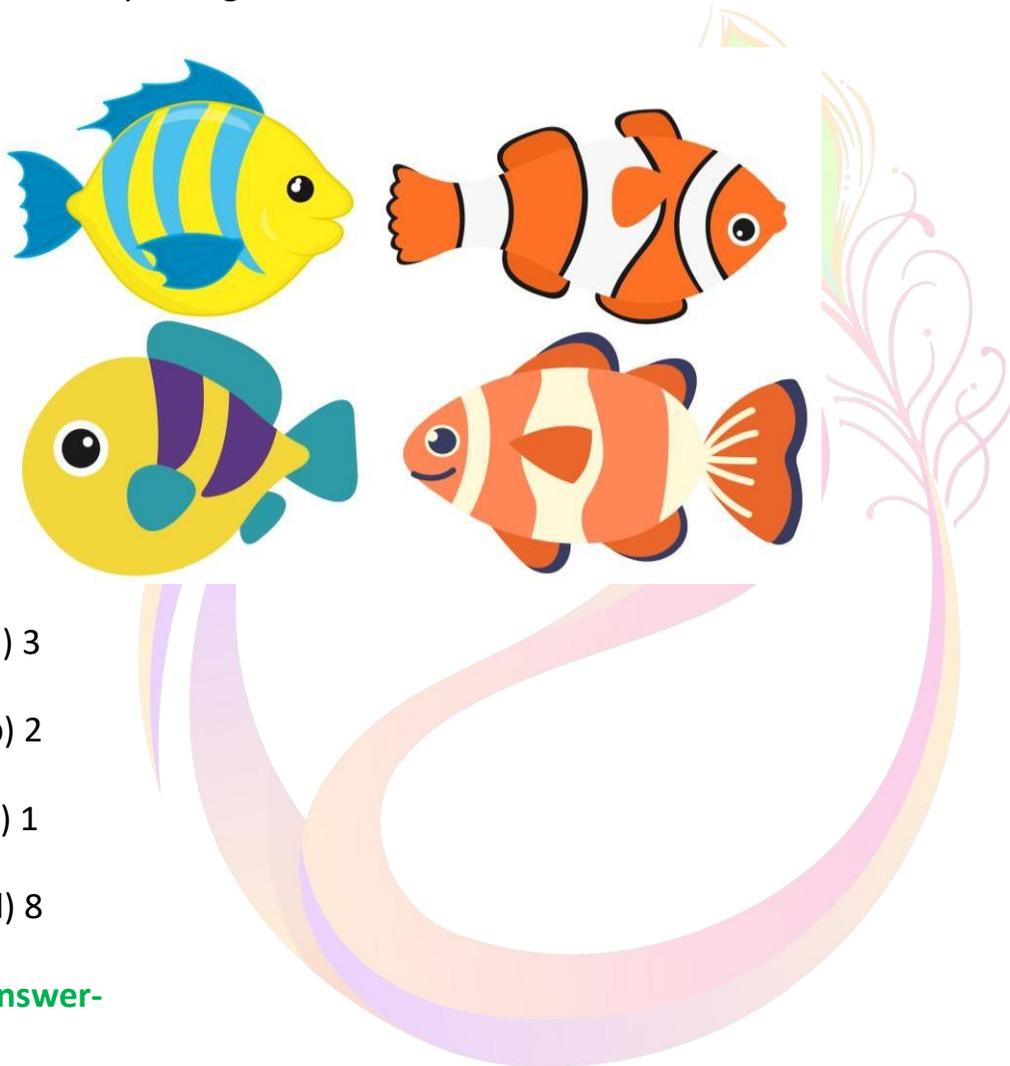
1. How many teddies are there?

(a) 4

(b) 3

(c) 2

(d) 1

2. How Many Orange fish are there

(a) 3
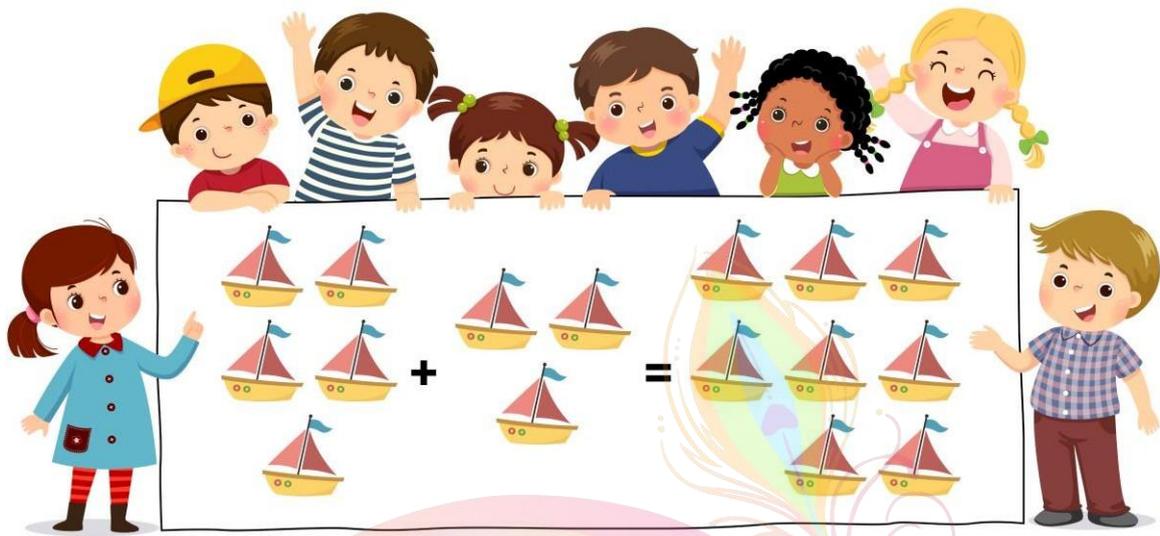
(b) 2

(c) 1

(d) 8

Answer-

1: (a)

2: (b)

➤ METHODS OF ADDITION

Addition by counting,

(4)

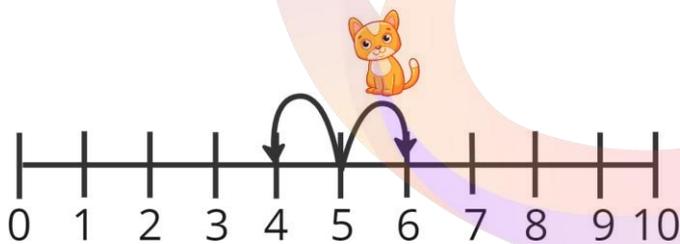We can add the total numbers of boats present in the pond by counting all the boats one by one.

5 + 3 = 8

Addition Using Number Line

We have learnt about number line in previous chapter. Lets discuss how number line helps in adding two numbers.

For Example:

Minki the cat, wants to add 4 and 2. Minki starts from 4 and reaches 2 steps ahead by jumping one step at a time.

Minki reaches at number 6, i.e. 4 + 2 = 6.

Addition Of Zero And One To A Number

On adding zero to a number, we get the number itself.

7 + 0 = 7

On adding 1 to a number, we get the number that comes just after it.

(5)

7 + 1 = 8

Addition by forward counting:

To add 2 to 7, count 2 numbers after 7.

7 (8) (9)

So, 7 + 2 = 9

To add 7 to 12, count 7 numbers after 12.

12 (13) (14) (15) (16) (17) (18) (19)

So, 12 + 7 = 9

Historical Preview

The plus (+) and (-) signs are mathematical symbols used to represents addition and subtraction. These words are originated from latin term which means more and less respectively

To add 5 to 15, count 5 numbers after 15.

15 (16) (17) (18) (19) (20)

So, 15 + 5 = 20

(6)