

# Math Day 3

Topics:-

- 1  Simple Addition (Single Digit)
- 2  Carry Addition – Introduction

## ◆ 1. Simple Addition (Single Digit)

### ✓ What is Addition?

Addition means putting things together.

We use the + (plus) sign.

Think like this:

- You have 2 apples
- You get 3 more apples
- Total apples =  $2 + 3 = 5$

### ☛ Examples:

- $1 + 1 = 2$
- $2 + 3 = 5$
- $4 + 5 = 9$
- $6 + 2 = 8$

### ☞ Rule:

When numbers are small (0–9) and the total is less than 10, it is simple addition.

## ◆ 2. Carry Addition (Introduction)

### ✓ What is Carry Addition?

Sometimes the answer becomes two numbers instead of one that's called carry addition. OR

When we add numbers and the answer becomes bigger than 9.

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Example:

$$8 + 5$$

Let's count:

$$8 \rightarrow 9 \rightarrow 10 \rightarrow 11 \rightarrow 12 \rightarrow 13$$

So,

$$8 + 5 = 13$$

☞ The answer has two digits.

☞ This type of addition is called carry addition.

## 2.1 🔑 Easy Understanding Rule

- Answer  $< 10 \rightarrow$  Simple addition ☐
  - Answer  $\geq 10 \rightarrow$  Carry concept starts ↗
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### ◆ Simple Addition

1.  $3 + 2 = \underline{\hspace{2cm}}$
2.  $4 + 1 = \underline{\hspace{2cm}}$
3.  $6 + 3 = \underline{\hspace{2cm}}$

### ◆ Carry Concept

4.  $7 + 5 = \underline{\hspace{2cm}}$
  5.  $8 + 4 = \underline{\hspace{2cm}}$
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## 3. Carry Addition (Single Digit – Understanding)

**Focus:** What really happens when answer is 10+

Topics:

- Making 10 first
- Breaking numbers
- ☞ Example:  $8 + 5 \rightarrow 8 + 2 + 3 = 13$
- More counting practice
- No columns yet.

### 3.1 Making 10 First

✓ What does “Making 10” mean?

It means:

We try to reach 10 first, because 10 is easy to add.

Why 10 is special?

- After 10, counting is easy
- $10 + \text{anything} = \text{very simple}$

☞ Example 1:

$$8 + 5$$

Ask yourself:

How many does 8 need to become 10?

Answer:

2

So break 5 into:

- 2
- 3

Now add step by step:

- $8 + 2 = 10$
- $10 + 3 = 13$

☞ Final answer: 13

☞ Example 2:

### **7 + 6**

- 7 needs **3** to become 10
- Break 6 into **3 + 3**

Steps:

- $7 + 3 = 10$
- $10 + 3 = 13$

## **3.2** **Breaking Numbers**

✓ What does “breaking numbers” mean?

It means:

Cutting a number into smaller parts to make addition easy.

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### **Examples:**

- $5 \rightarrow 2 + 3$
- $6 \rightarrow 3 + 3$
- $9 \rightarrow 1 + 8$

### **Example:**

#### **9 + 6**

- 9 needs **1** to become 10
- Break 6  $\rightarrow 1 + 5$

Steps:

- $9 + 1 = 10$
- $10 + 5 = 15$

## **3.3** **More Counting Practice**

✓ Why counting is important?

Because addition is counting forward.

Or even simpler:

If you can count, you can add.

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## **Explain with One Example**

**Example:  $6 + 4$**

Say this:

Start from 6

Count **4 steps forward**

Steps:

- 7 (1)
- 8 (2)
- 9 (3)
- 10 (4)

So,

$$6 + 4 = 10$$

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## Another Example

$$8 + 3$$

- Start from 8
- Count 3 steps:  
9 → 10 → 11

So,

$$8 + 3 = 11$$

### Practice (For Students)

1. Start from 5, count 2 steps → 7
2. Start from 7, count 3 steps → 10
3. Start from 9, count 1 step → 10

## Part 2

### Day 4: Carry Addition (Column Method – Ones Only)

**Focus:** How to write carry

**Topics:**

- Writing addition **one below another**
- Ones column only
- Small carry (1)
- Example:

$$\begin{array}{r} 8 \\ + 5 \\ \hline 13 \end{array}$$

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### 4.1 Writing Addition One Below Another

#### What does this mean?

It means:

We write numbers one under the other to make addition easy.

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#### Example:

Instead of writing:

$$8 + 5$$

We write:

$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

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## 4.2 Ones Column Only

✓ What does “ones column” mean?

For now:

We only add single digits (0–9).

No tens. No hundreds.

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Example:

$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$

Both numbers are **ones numbers**.

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## 4.3 Small Carry (1)

✓ What is Carry? (Very Simple)

When the answer becomes 10 or more, we get extra 1.

That extra 1 is called **carry**.

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Example:

$$8 + 5$$

Steps:

1  Add numbers:

- $8 + 5 = 13$

2  Write 3 below the line

3  The 1 is the carry

$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

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$$13$$

☞ Carry = 1 (how ?)

☞ Written together as 13

Carry comes only from the column you are adding, not from the whole number.

## 4.4 Full Example

Example:  $7 + 6$

Step 1: Add

- $7 + 6 = 13$

Step 2: Write answer

$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$

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$$13$$

**Test - Carry Addition — Check Your Understanding**

◆ **Question 1**

Add:

8

+ 7

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What is the **carry**?

What is the **final answer**?

◆ **Question 2**

Add:

16

+ 5

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From **which digits** does the carry come?

◆ **Question 3**

True or False:

Carry is decided from the **final answer**.

◆ **Question 4**

Add:

27

+ 8

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What do you write in the **ones place**?

What is the **carry**?

◆ **Question 5**

Fill in the blank:

In small carry addition, the carry value is always \_\_\_\_.

## Step-by-Step Explanation

Take  $16 + 5$  as an example:

16

+ 5

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### Step 1: Add right-side digits

- $6 + 5 = 11$
- Write **1** in the ones place
- Carry = **1** (this is **from the column**, not the final answer)

### Step 2: Add left-side digits + carry

- Left digit:  $1 + \text{carry } 1 = 2$

### Step 3: Final answer

- Write left-side sum: **2**
- Ones place: **1**
- Final answer = **21**

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## Key Point

- Carry is **created first** from the column addition
- Then it is **added to the next column**
- Only after **all columns are added**, the final answer comes

So:

**Carry is not decided from the final answer**

It is decided **during column addition**, step by step.

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## 5. Carry Addition (Two-Digit + One-Digit) — THEORY

### Two-Digit + One-Digit Addition

A two-digit number has two digits.

A one-digit number has one digit.

In this type of addition, we add a one-digit number to a two-digit number.

Examples:

- $14 + 6$
  - $27 + 5$
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### 5.1 Order of Addition

Addition starts from the **right side**.

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### 5.2 Carry in Two-Digit + One-Digit Addition

When the right-side addition becomes **10 or more**, the extra **1** is added to the next digit on the left.

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### 5.3 Example: $14 + 6$

- Add the right-side digits:  $4 + 6 = 10$
  - Write 0
  - Add the carry 1 to the left digit
  - Final answer: 20
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### 5.4 Example: $27 + 5$

- Add the right-side digits:  $7 + 5 = 12$
  - Write 2
  - Add the carry 1 to the left digit
  - Final answer: 32
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### 5.5 Key Rule

If the right-side addition is **less than 10**, no carry is needed.

If the right-side addition is **10 or more**, carry is added to the next digit.

## ❑ Day 6: Carry Addition (Two-Digit + Two-Digit)

### Focus

Full use of carry in addition.

#### 6.1. Two-Digit + Two-Digit Addition

In this type of addition, both numbers have two digits.

Addition is done from the **right side first**, then the left side.

#### 6.2. Carry in Two-Digit + Two-Digit Addition

When the addition on the right side becomes **10 or more**, the extra 1 is carried to the left side.

Only **one carry** is used in this stage.

#### 6.3. Example: $24 + 18$

- Add right-side digits:  $4 + 8 = 12$
- Write 2 and carry 1
- Add left-side digits:  $2 + 1 + 1 = 4$
- Final answer: 42

#### 6.4. Example: $36 + 27$

- Add right-side digits:  $6 + 7 = 13$
- Write 3 and carry 1
- Add left-side digits:  $3 + 2 + 1 = 6$
- Final answer: 63

#### 6.5. Key Rule

If the right-side addition is **less than 10**, no carry is needed.

If the right-side addition is **10 or more**, one carry is added to the left side.

#### 6.6. Learning Outcome

Students can correctly add two-digit numbers using one carry.

## ❑ Day 8: Multiple Carry (Advanced Intro) — THEORY

## Focus

Understanding addition with carry in more than one step.

### 8.1. Multiple Carry Addition

Multiple carry happens when addition creates a carry in the **right side** and again in the **left side**.

### 8.2. Order of Addition

Addition is done from the **right side first**, then the left side.

### 8.3. Example: $58 + 47$

- Add right-side digits:  $8 + 7 = 15$
- Write 5 and carry 1
- Add left-side digits:  $5 + 4 + 1 = 10$
- Write 0 and carry 1
- Final answer: 105

### 8.4. Key Rule

If an addition step becomes **10 or more**, a carry is created.

Carry can happen more than once in the same addition.

### 8.5. Learning Outcome

Students understand that carry can occur in both ones and tens during addition.



## Practice Sets: Multiple Carry Addition

### ◆ Practice Set 1: Identify Carry

(Add and observe where carry happens.)

1.  $58 + 47 =$  \_\_\_\_\_
2.  $69 + 36 =$  \_\_\_\_\_
3.  $78 + 29 =$  \_\_\_\_\_

### ◆ Practice Set 2: Step-by-Step Carry

(Solve step by step.)

4.  $67 + 58 =$  \_\_\_\_\_
5.  $86 + 47 =$  \_\_\_\_\_
6.  $59 + 68 =$  \_\_\_\_\_

### ◆ Practice Set 3: Carry in Both Steps

(Add carefully. Carry will occur more than once.)

7.  $75 + 36 =$  \_\_\_\_\_

8.  $88 + 27 =$  \_\_\_\_\_

9.  $96 + 19 =$  \_\_\_\_\_

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### ◆ Practice Set 4: Mixed Difficulty

(Some have single carry, some have multiple carry.)

10.  $54 + 38 =$  \_\_\_\_\_

11.  $72 + 29 =$  \_\_\_\_\_

12.  $65 + 47 =$  \_\_\_\_\_

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### ◆ Practice Set 5: Think Before Adding

(Check if carry will happen.)

13.  $48 + 59 =$  \_\_\_\_\_

14.  $79 + 26 =$  \_\_\_\_\_

15.  $87 + 35 =$  \_\_\_\_\_

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### ❑ Practice Goal

- Understand how carry moves
- Notice when carry happens once or more
- Stay slow and accurate