

**BHARATHIDASAN UNIVERSITY**  
**CENTRE FOR DIFFERNTLY ABLED PERSONS**  
**Tiruchirappalli-620024**  
**Tamil Nadu, India**

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# Basic Mathematics and Money Management

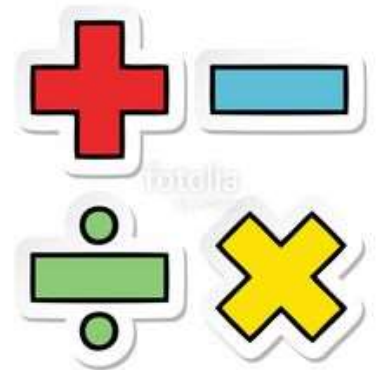
Understanding Arithmetic, Money  
Transactions, and Banking



# Introduction

- ▶ Basic mathematics and money management for students with intellectual disabilities focus on practical, real-life applications while building essential foundational math skills.  
Building a Strong Foundation in Basic Arithmetic

**Focus Areas:** Addition, Subtraction, Multiplication, and Division



# Basic Mathematics Skills

## ▶ *A. Number Recognition and Counting*

### ▶ **Goals:**

- Recognize numbers and count objects.
- Understand one-to-one correspondence.

### ▶ **Activities:**

- **Counting Games:** Count items like toys, snacks, or coins.
- **Number Matching:** Match numbers to groups of objects.
- **Tracing Numbers:** Use worksheets or sand trays to trace numbers.

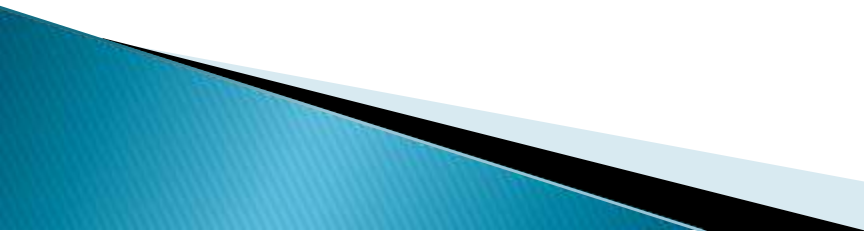
# Basic Mathematics Skills

## ▶ *Basic Addition and Subtraction*

### ▶ **Goals:**

- Perform simple addition and subtraction with visual aids.

### ▶ **Activities:**

- Use **manipulatives** like counters, blocks, or beads.
  - Practice addition and subtraction with story problems (e.g., "If you have 3 apples and add 2 more, how many do you have?").
  - **Interactive Apps:** Try apps like "Todo Math" for practice.
- 

# Basic Mathematics Skills

## ▶ *Shapes and Patterns*

### ▶ **Goals:**

- Recognize and classify shapes.
- Identify and complete patterns.

### ▶ **Activities:**

- **Shape Hunt:** Find shapes in the environment (e.g., circle = clock, rectangle = door).
- Use puzzles or cut-and-paste worksheets for patterns.
- **Building Blocks:** Create patterns with colored blocks.
- practice.

# Basic Mathematics Skills

## ▶ *Measurement and Time*

### ▶ **Goals:**

- Understand basic units of measurement (length, weight, volume).
- Tell time on analog and digital clocks.

### ▶ **Activities:**

- Use rulers, scales, or measuring cups during practical activities (e.g., baking or crafting).
- Practice setting times on toy clocks or drawing clock hands.
- Use songs or rhymes to learn about hours and minutes.


# Money Management Skills

## ▶ *A. Identifying Money*

### ▶ **Goals:**

- Recognize coins and bills.

### ▶ **Activities:**

- Use real or play money to identify and sort coins and bills.
  - Match coins/bills to printed templates.
  - Use flashcards with pictures of money for recognition.
- 



# Money Management Skills

## ▶ *Counting and Comparing Money*

### ▶ **Goals:**

- Count small amounts of money.
- Compare amounts (e.g., which is more or less).

### ▶ **Activities:**

- Practice combining coins to make small amounts (e.g., Rs 20 note = Rs 1 ,Rs.2 Rs.5 and Rs.10 coins).
- Use interactive money apps like “Counting Coins” by ABCya.
- Role-play scenarios, such as giving the right amount for a purchase.

# Money Management Skills

## ▶ *Making Purchases*

### ▶ **Goals:**

- Use money to buy items.
- Understand giving and receiving change.

### ▶ **Activities:**


- Set up a pretend store with items priced under Rs 5 and Rs.10 and have students "buy" them.
- Use real-life shopping trips to practice identifying items, counting money, and paying.
- Play money management games like "Monopoly Junior."

# *Budgeting*


## ▶ **Goals:**

- Understand the concept of saving and spending.

## ▶ **Activities:**

- Introduce simple savings goals (e.g., saving coins for a toy).
  - Use jars labeled “Save,” “Spend,” and “Donate” to allocate money.
  - Practice budgeting with worksheets that show a small allowance and choices for spending.
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# Objectives:

- Learn fundamental math operations.
  - Apply arithmetic to solve real-life problems.
  - Build confidence in handling numbers.
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# Understanding Addition









Combining two or more numbers to find the total.

## **Examples:**

Real-life: Counting total fruits in a basket.

Numeric:  $4 + 3 = 7$

# Activity:

 3	+	 2	=	<input type="text"/>
 2	+	 4	=	<input type="text"/>
 5	+	 3	=	<input type="text"/>
 4	+	 1	=	<input type="text"/>

# Exploring Subtraction

Removing a part from a whole to find the remainder.

## Examples:

Real-life: Giving away 2 candies from 5.

Numeric:  $5 - 2 = 3$



Activity:



$$4 - 2 = \square$$



$$3 - 1 = \square$$



$$5 - 3 = \square$$



$$2 - 1 = \square$$



$$5 - 2 = \square$$



$$3 - 3 = \square$$



# Multiplication

Repeated addition of the same number.

**Examples:**

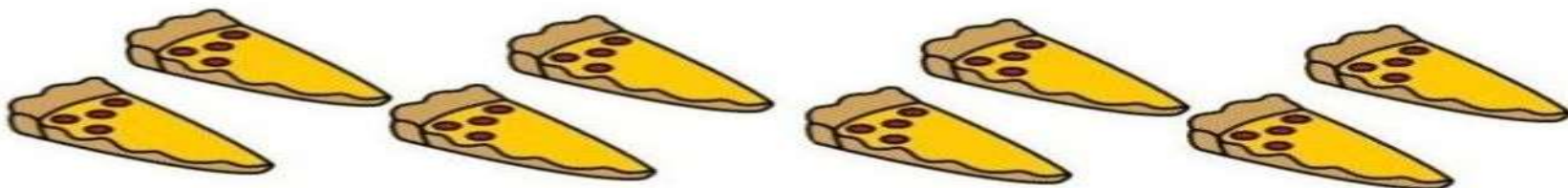
Real-life: 3 baskets with 4 apples each ( $4 + 4 + 4 = 12$ ).

Numeric:  $3 \times 4 = 12$

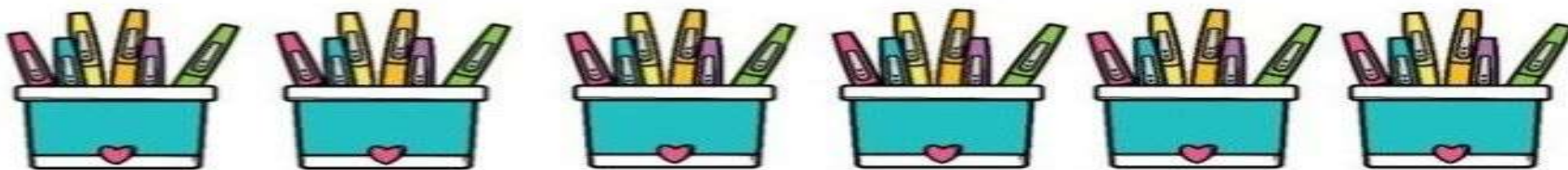
# Activity: Group and multiply objects to find the total.



$$\square \times \square = \square$$



$$\square \times \square = \square$$



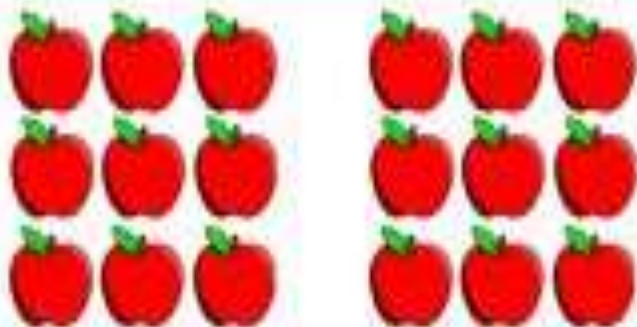
$$\square \times \square = \square$$



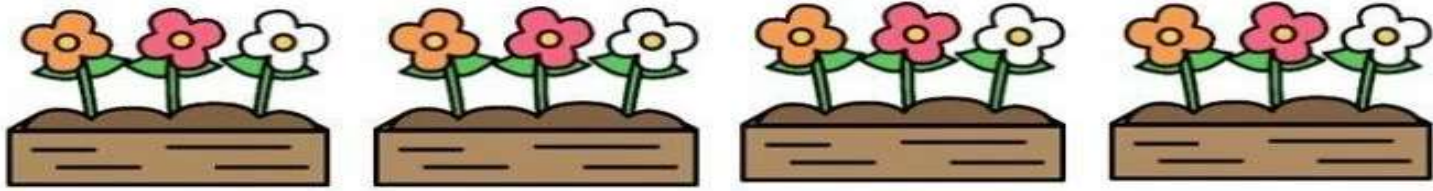
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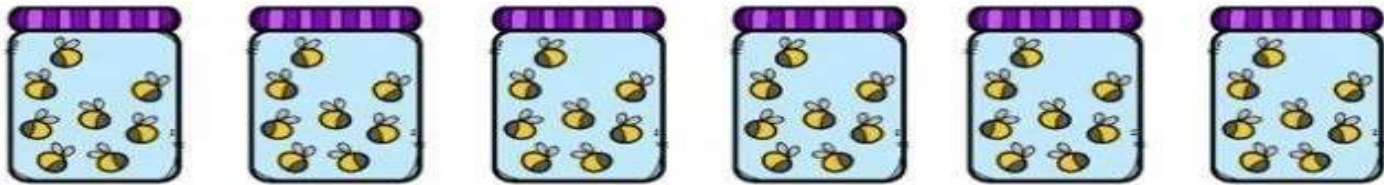
$$\square \times \square = \square$$



$$\square \times \square \times \square = \square$$



$$\square \times \square = \square$$



$$\square \times \square = \square$$



$$\square \times \square = \square$$


# Division

**Concept:** Splitting a number into equal parts.

**Examples:**

Real-life: Sharing 12 cookies among 4 friends.

Numeric:  $12 \div 4 = 3$



# Activity: Divide objects into equal groups and count.

$10 \div 2 = \square$



$6 \div 3 = \square$



$16 \div 4 = \square$



$12 \div 3 = \square$





# Divide by 3



$$3 \div 3 =$$



$$6 \div 3 =$$



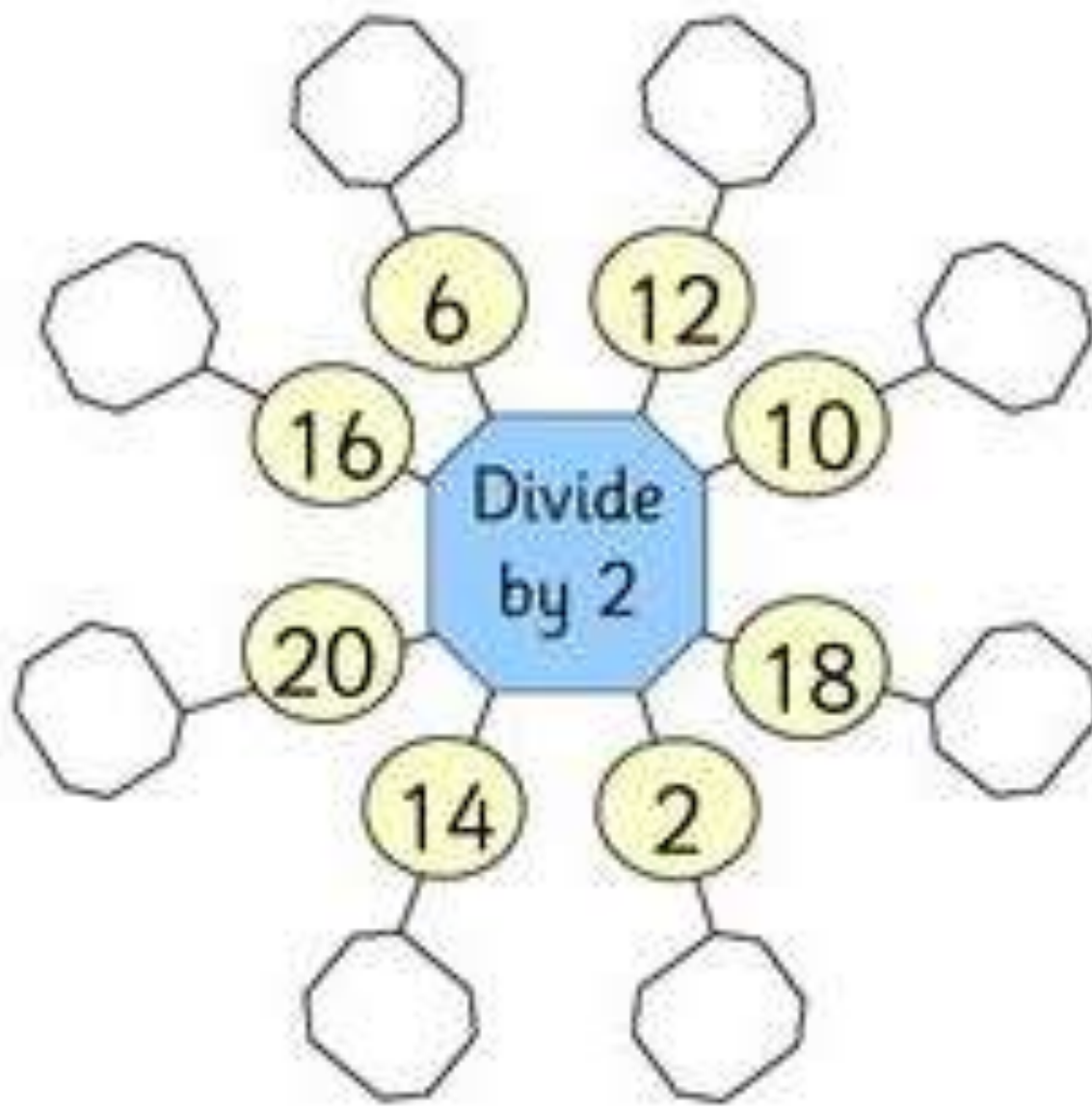
$$9 \div 3 =$$



$$12 \div 3 =$$



$$15 \div 3 =$$





# Using Arithmetic Symbols



## Key Symbols:

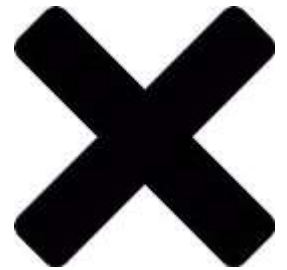
+ (Addition), - (Subtraction),  $\times$  (Multiplication)  
(Division)



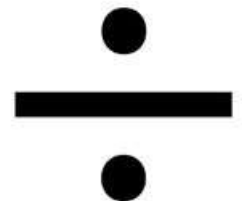
## Tips:

Understand each symbol's function.

Practice reading and solving simple equations.



**Interactive Exercise:** Match symbols to operations.



# Applying Arithmetic in Real Life

## **Scenarios:**

Shopping: Add prices of items.

Cooking: Multiply ingredients for a recipe.

Sharing: Divide treats among friends.

**Activity:** Solve real-life problems using arithmetic.



# Practice

## **Suggestions:**

Solve worksheets with basic arithmetic problems.

Use math games and apps for interactive learning.

Practice daily with household examples.

**Interactive Activity:** Complete a set of problems in small groups.



# Resources and Tools

- ▶ *Printable Materials*
- ▶ **Coin Identification Worksheets:**
  - [WorksheetWorks](#)
- ▶ **Money Math Games:**
  - Matching coins and solving small puzzles on [Twinkl](#).
- ▶ **Budgeting Worksheets:**
  - Create simple “Allowance Budget” templates on [Education.com](#).

▶ *Interactive Tools*

▶ **Apps:**

- “Todo Math” for basic math practice.
- “SplashLearn” for counting and simple operations.
- “Moneyville” or “Counting Coins” for money skills.

▶ **Websites:**

- [Starfall Math](#) for interactive learning.
- [ABCya Money Games](#).

# Printable Resources and Worksheets

- ▶ Here are some links to specific printable resources that can be used to support the learning activities:
- ▶ **Counting and Number Recognition:**
  - [Number Tracing Worksheets](#)
  - [Counting Objects Worksheets](#)
- ▶ **Addition and Subtraction:**
  - [Basic Addition Worksheets](#)
  - [Subtraction Worksheets](#)
- ▶ **Shapes and Patterns:**
  - [Shape Worksheets](#)
  - [Pattern Worksheets](#)
- ▶ **Money Management:**
  - [Money Worksheets](#)
  - [Transaction Worksheets](#)

# Thank You

