

ARROW

# CUBE

## MATHEMATICS

Book - 1

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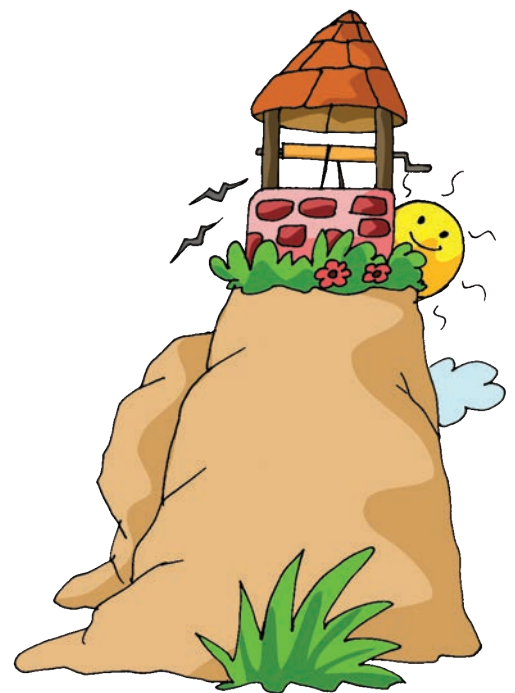


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# Preface

Mathematics is the science of numbers and their operations. Maths is all around us, in everything we do.

Learning maths skills is the pre-requisite and the building block for various vocations and professions. Therefore, it is imperative that learners have a sound knowledge of maths at an early age, in order to become confident at it in later life.

Our all new Maths series has been based on the premise that all students have an innate ability to learn mathematics if taught the right way. The series is designed with the aim of developing mathematical curiosity, reasoning, logical and critical thinking in the young learners.

The series is well-structured and is presented in an interesting and easy-to-understand manner, through plenty of examples and activities linked to children's real life situations and experiences.

A unique feature of the series is the progression from simple to complex and known to unknown concepts in order to make learners active participants in the learning process.

All efforts have been made to make the learning of mathematics relevant and useful in real life.

## Salient Features of CUBE MATHEMATICS Series

- Graded and interesting content across the series
- **Warm Up** introduces the topics
- **Let's Understand** explains concepts with examples
- **Let's Practise** provides exercises to test understanding of concepts
- **Quick Maths** develops speed in working out sums
- **Math Puzzler** triggers thinking and reasoning skills
- **Math Fact** gives interesting facts
- **Fun with Maths** provides fun activities
- **Math Info** gives snippets of information
- **Math Challenger** presents questions to test higher order thinking skills
- **Math Tip** provides useful tips to solve problems
- **Mathletics** develops mental maths skills
- **Mathmagic** makes learning fun
- **Math Tricks** contains interesting tricks to develop maths skills

We are confident that the CUBE MATHEMATICS Series will equip learners with necessary maths skills both for academic life and real-life.

We hope the series makes for an interesting and enjoyable learning experience for the young learners.

-Publishers

# HIGHLIGHTS OF **CUBE** Mathematics

## **WARM UP**

Starters in each chapter to arouse the interest of the learner

## **LET'S UNDERSTAND**

Concepts explained in an easy to understand manner with examples

## **LET'S PRACTISE**

Graded exercises in each concept



## **QUICK MATHS & EVERYDAY MATHS**

Objective type questions in every chapter to reinforce concepts

## **FUN WITH MATHS**

Fun activities in every lesson to make learning of maths enjoyable

## **MATH TIP**

Tips to work out sums



## **MATH CHALLENGER**

Questions to develop Higher Order Thinking Skills

## **MATH TRICKS**

Tricks to help students do calculations fast and remember facts

## **MATH INFO**

Information about concepts in maths

## **MATHMAGIC**

Magic tricks with numbers to make learning fun

## **MATH FACT**

Interesting facts about concepts in maths

## **MATH PUZZLER**

Puzzles and riddles to develop logic and thinking in learners

## **MATHLETICS**

Sums for mental exercise



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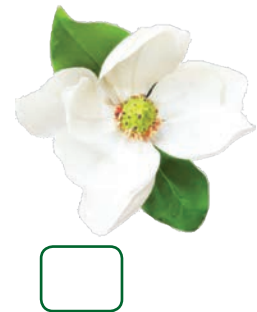
# Pre-Number Concepts

You have learnt the pre-number concepts in your previous class. Let us begin by revising them.

## SORTING

Sorting is to arrange or separate things of the same size, shape, colour or type into groups.

*1. Look at the colours of flowers. Write R for red, Y for yellow, P for pink and W for white.*



### Key Concepts

- \* Sorting
- \* Matching
- \* Same and Different
- \* Grouping
- \* Comparing
- \* Patterning
- \* One to One Correspondence

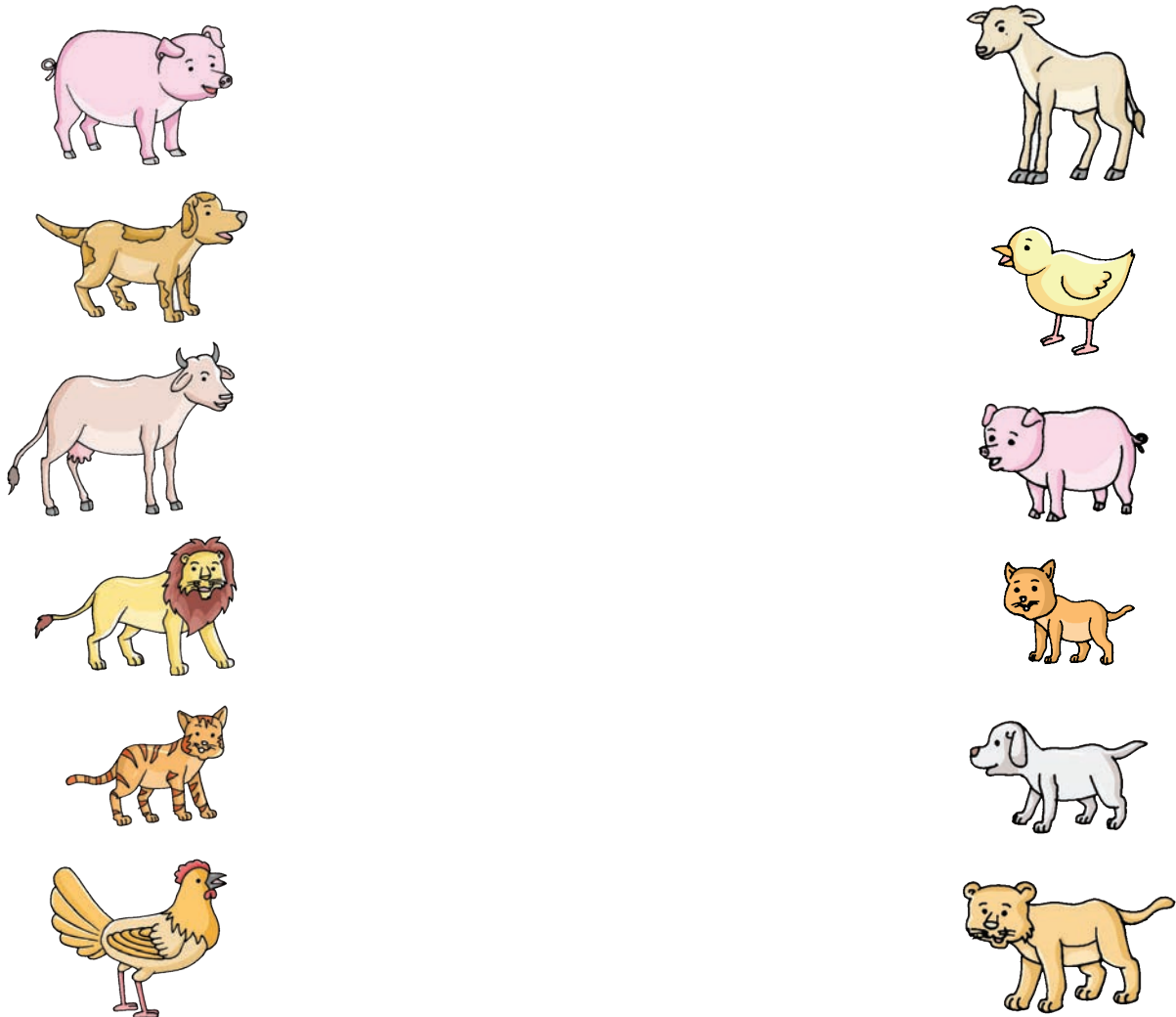
II. Some of these you eat and some you don't. Circle the things you can eat.



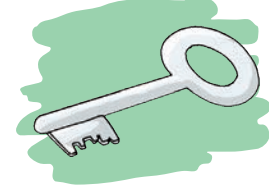
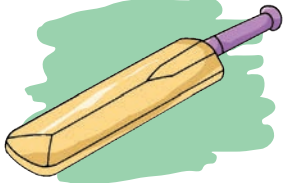
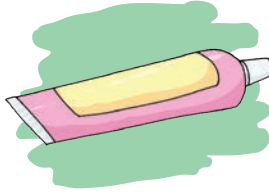
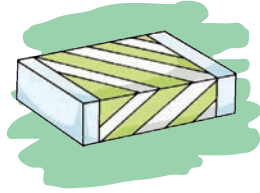
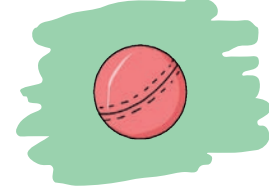
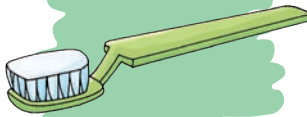
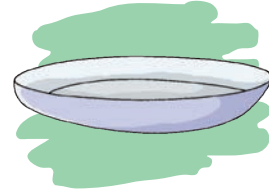
## MATCHING

Matching is to put together things of the same kind.

I. Join the mother with the baby.



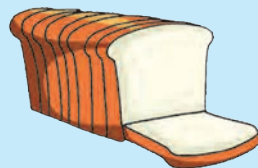
II. Join the pictures that go together.

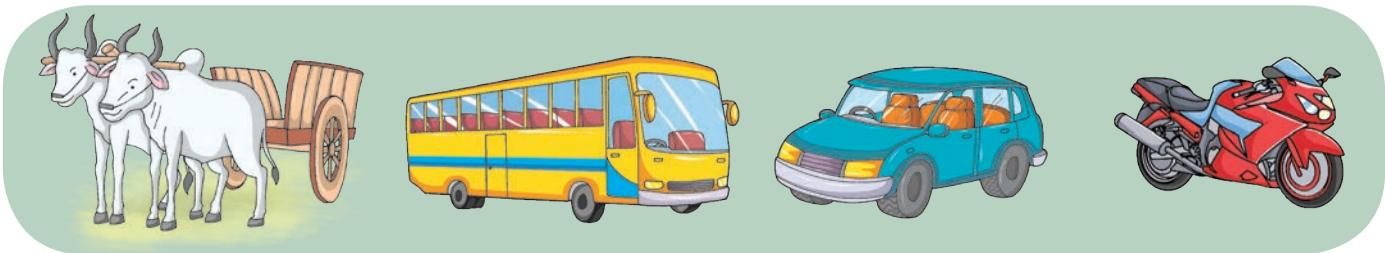


**SAME AND DIFFERENT**

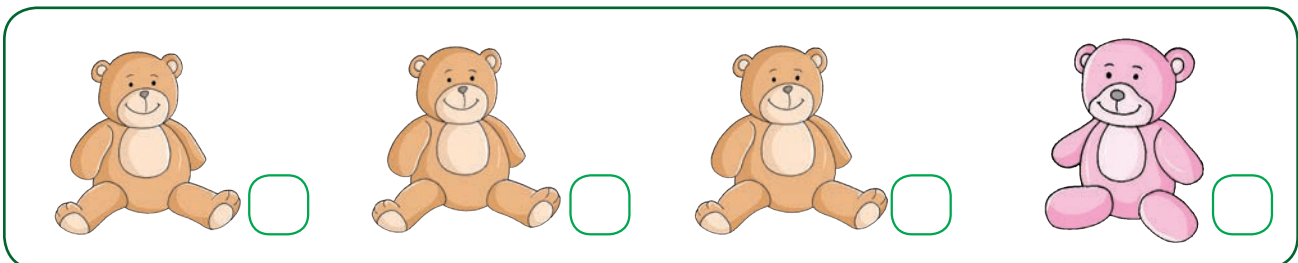
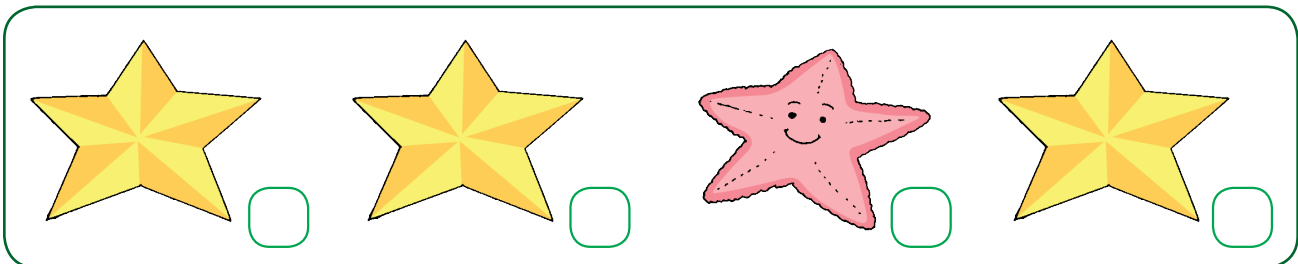
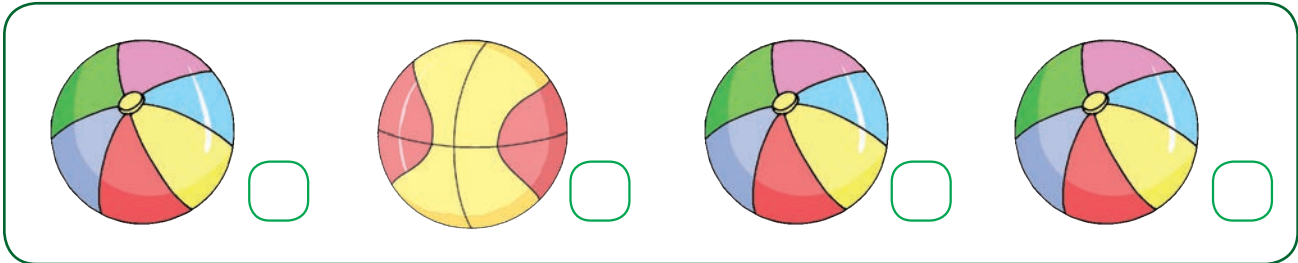
Same means of a type, different means not of a type.

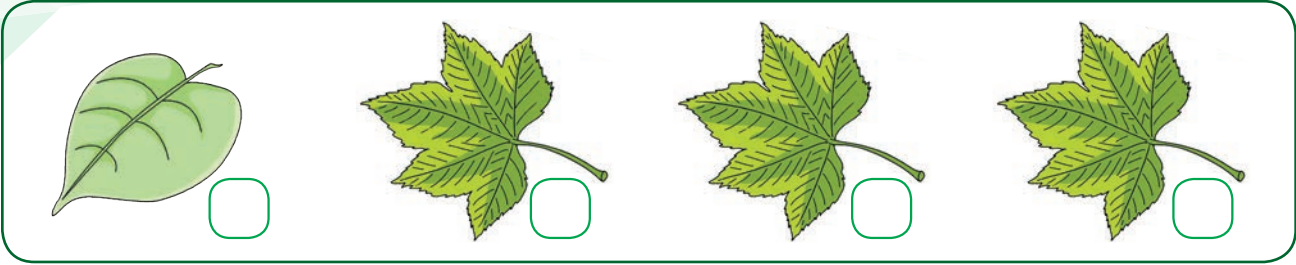
*I. Circle the one that does not belong with the others.*



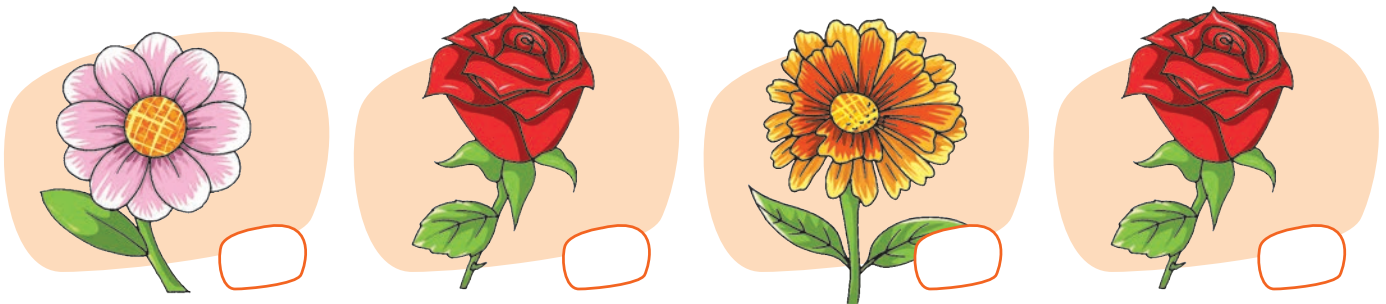
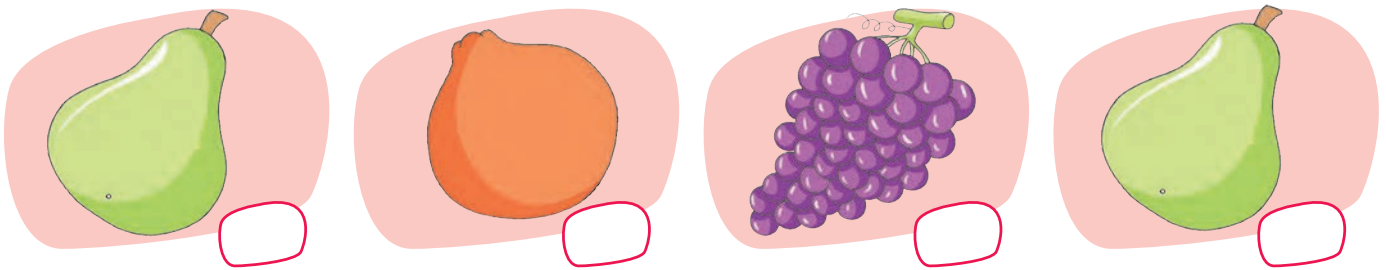
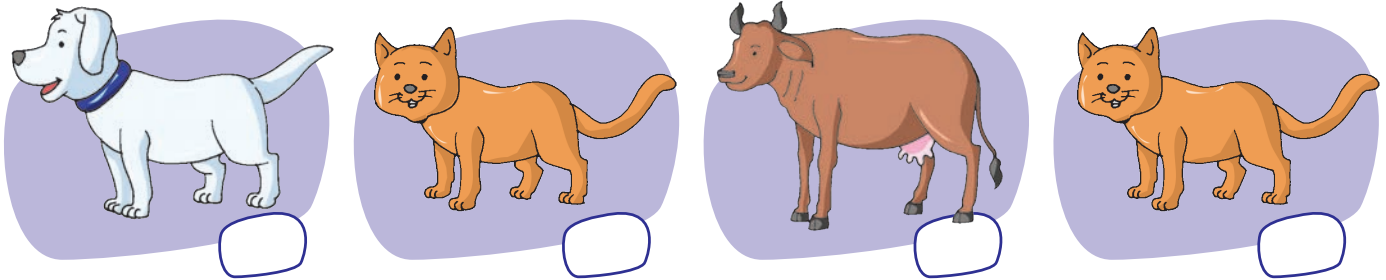


II. Look at each set carefully and tick (✓) the different one.





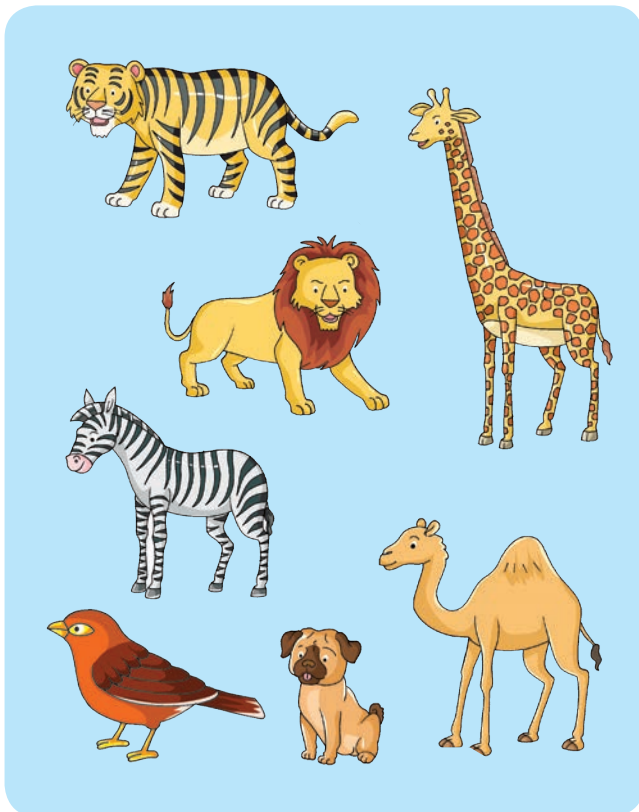
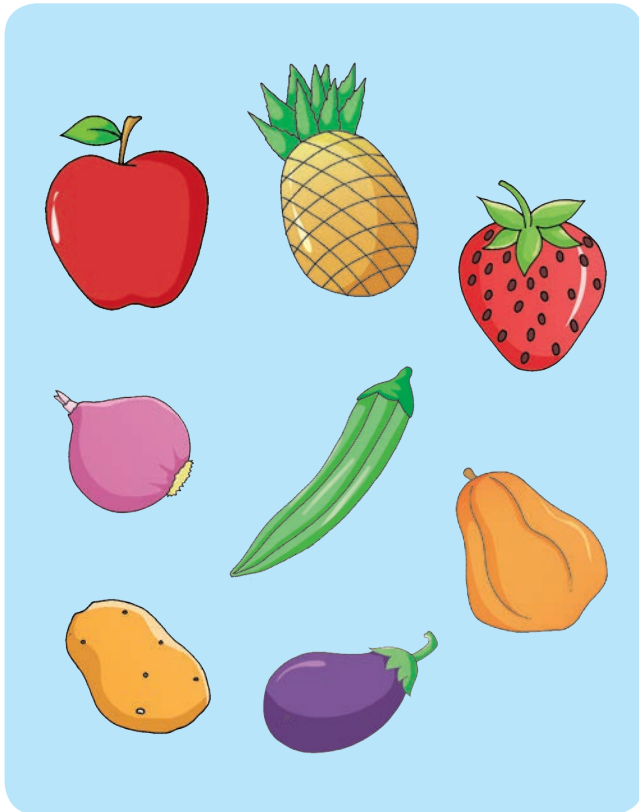
III. Tick (✓) the same things in each set.



## GROUPING

Grouping is to put things in a set.

*Draw a line around each set.*

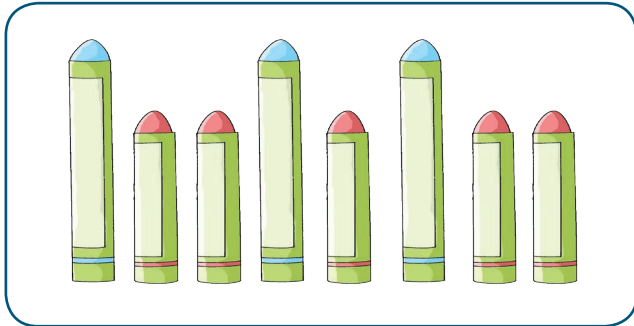


## COMPARING

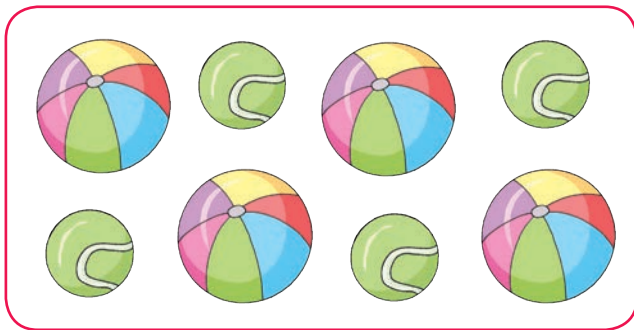
Comparing is looking at the differences between two sets of things.

*Look at the objects and sort them.*

Draw smaller ones here.



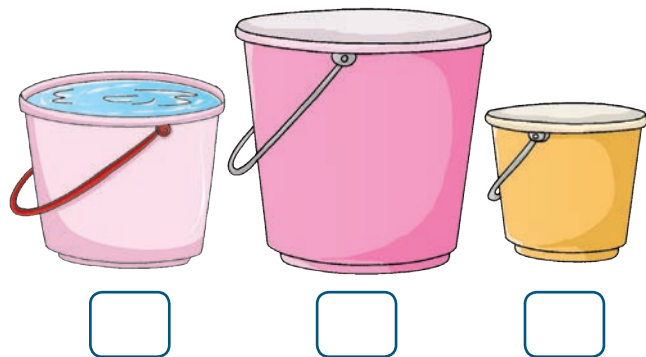
Draw bigger ones here.



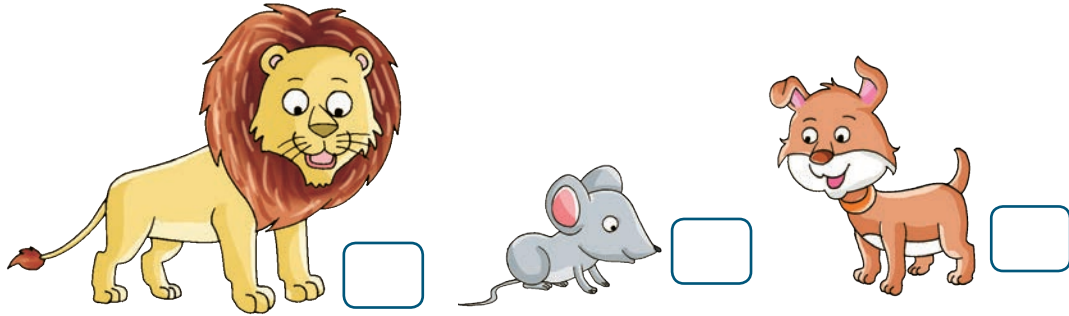
## ORDERING

Ordering is to put things in a certain order from big to small or small to big or in the order in which things happen.

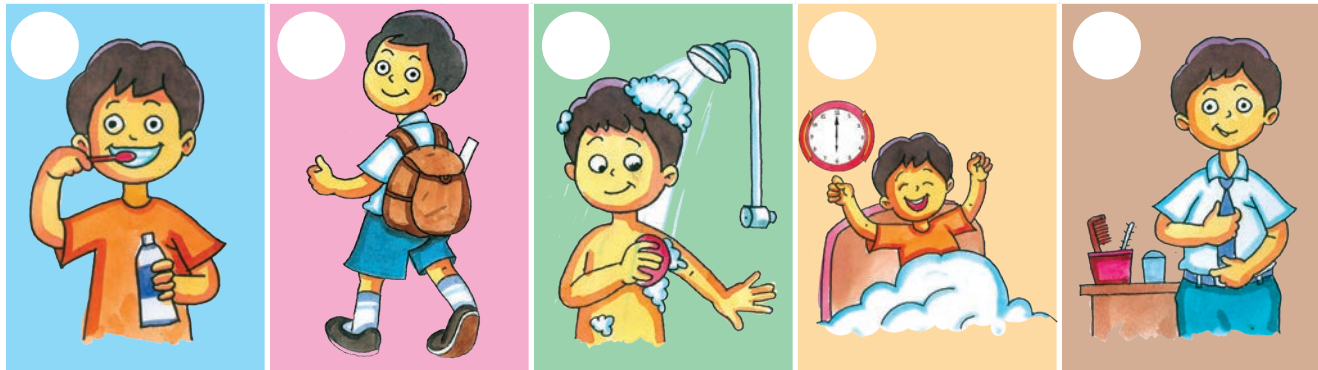
*1. Number them from smallest to biggest.*



II. Number the pictures from biggest to smallest.



III. Sequence the pictures in the order they happen.



## PATTERNING

Patterning skills help in developing mathematical thinking. Patterns can be found everywhere.

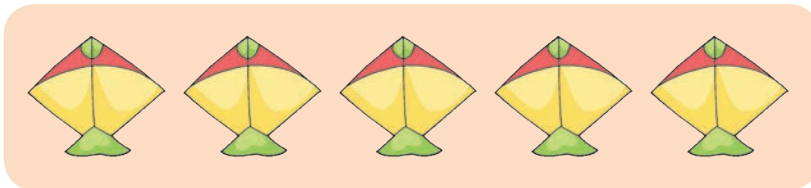
Complete the colours in the patterns.



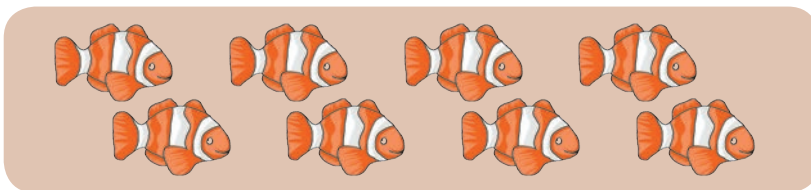
## ONE TO ONE CORRESPONDENCE

One to one correspondence is the ability to match an object to the corresponding number.

*I. Count the items in each row and circle the corresponding number.*



5 6 7



4 8 6



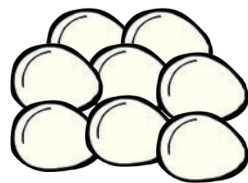
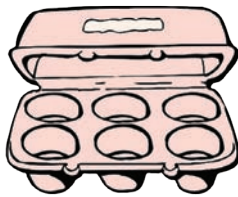
3 6 9



2 5 7

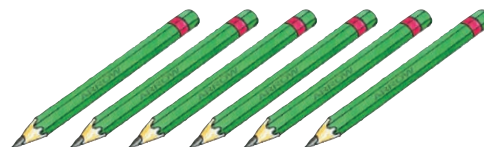
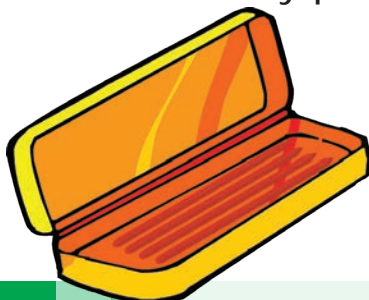
*II. How many can you put?*

1. How many eggs can you put in the tray?



8, 6, 4

2. How many pencils can you keep in the box?



4, 6, 5