II. Shade the figure according to the fraction

1	$\dfrac{3}{4}$	
2	$\dfrac{5}{10}$	
3	$\dfrac{1}{8}$	
4	$\dfrac{2}{6}$	

To Compare Natural Fraction and identifies greater and Smaller.

Introduction

Mother : Muthamizh and Sentamizh come here

Muthamizh & Sentamizh: Yes, Amma

(Mother had four equal parts of a watermelon. She gave them each one piece of the watermelon)

Sentamizh : Amma, I need one more piece?

(She gave another piece to him)

Muthamizh : Amma you gave more than one piece to brother, that's 1/4 for me and 2/4 for brother.

Mother : Muthamizh! Sentamizh is your younger brother know? So only I gave him ok, eat it and then play (After returned from the play)

Sentamizh : Amma, I am hungry (Mother gave last piece of the watermelon to him)

Muthamizh : Amma you gave me 1/4 part of the watermelon. For brother you gave 2/4 it's

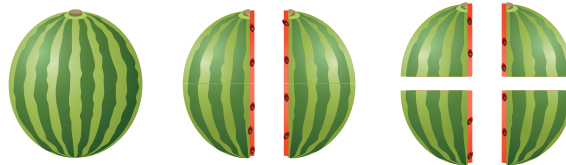more than 1/4. Now you gave the last piece (1/4) part to brother so you gave more (3/4) parts of the watermelon.

Mother : you Know, your brother never tolerate his hungry? I have milk for you, go and drink it.

The four equal pieces of the watermelon

A piece given to Muthamizh = 1/4

First a piece given to Sentamizh = 1/4

Again a piece given to Sentamizh = 2/4

Muthamizh Compares her piece of fruit with his brother and realizes that her mother gives more pieces to him than her. 2/4 is greater than 1/4 or

$$1/4 < 2/4$$

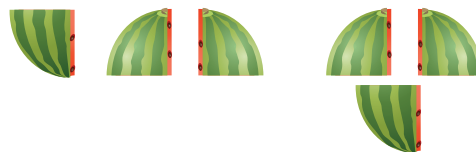Sentamizh after finished his playing he ate one more piece = 1/4

So totally he ate = $\dfrac{3}{4}$ (three fourth)

Muthamizh now realize that $\dfrac{3}{4}$ is greater than 2/4, Muthamizh Compares all the three:

$\dfrac{3}{4}$ is greater than 1/4
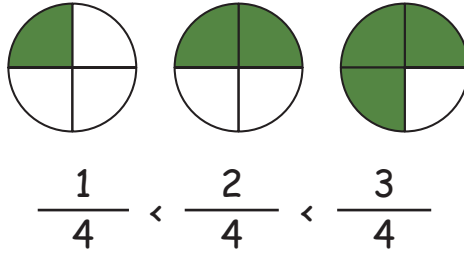
$\dfrac{3}{4}$ is greater than $\dfrac{2}{4}$

Thus: $\dfrac{1}{4} < \dfrac{2}{4} < \dfrac{3}{4}$

$$\dfrac{1}{4} < \dfrac{2}{4} < \dfrac{3}{4}$$

Simple fraction (or like fraction)

$$\frac{1}{4} < \frac{2}{4} < \frac{3}{4}$$

The shaded portion of the circle's fraction

$$\frac{1}{4} , \frac{2}{4} , \frac{3}{4}$$
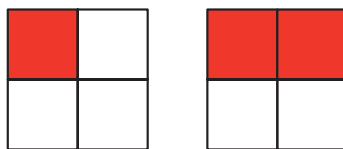
respectively

Here 1, 2, 3 = Numerator

4, 4, 4 = Denominator

Thus the fractions have same denominator, such fractions are called similar or like fraction.

Similar (like) fraction are fraction with same denominators.

EXAMPLE 1

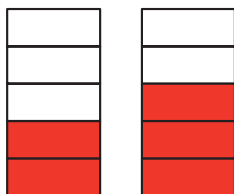Identify which one is greater or smaller

- If you observe the pictures you can notice that they are equally divided.

- In the 1st picture one part is shaded so its fraction = 1/4

- In the 2nd picture two parts are shaded. So its fraction = 2/4

In picture 2 the shaded portion is greater than picture 1.

Picture 2 is greater than picture 1

∴ 2/4>1/4

EXAMPLE 2

1st picture's fraction = $\dfrac{2}{5}$

2nd picture's fraction = $\dfrac{3}{5}$

Here the shaded portion of the 2nd picture is high, so the 2nd picture is greater than the first.

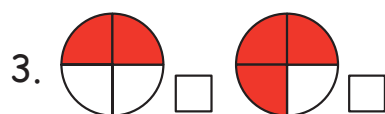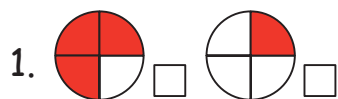In other words we can say picture 1 is smaller than picture 2

$\dfrac{2}{5} < \dfrac{3}{5}$ ($\dfrac{2}{5}$ is smaller than 3/5)
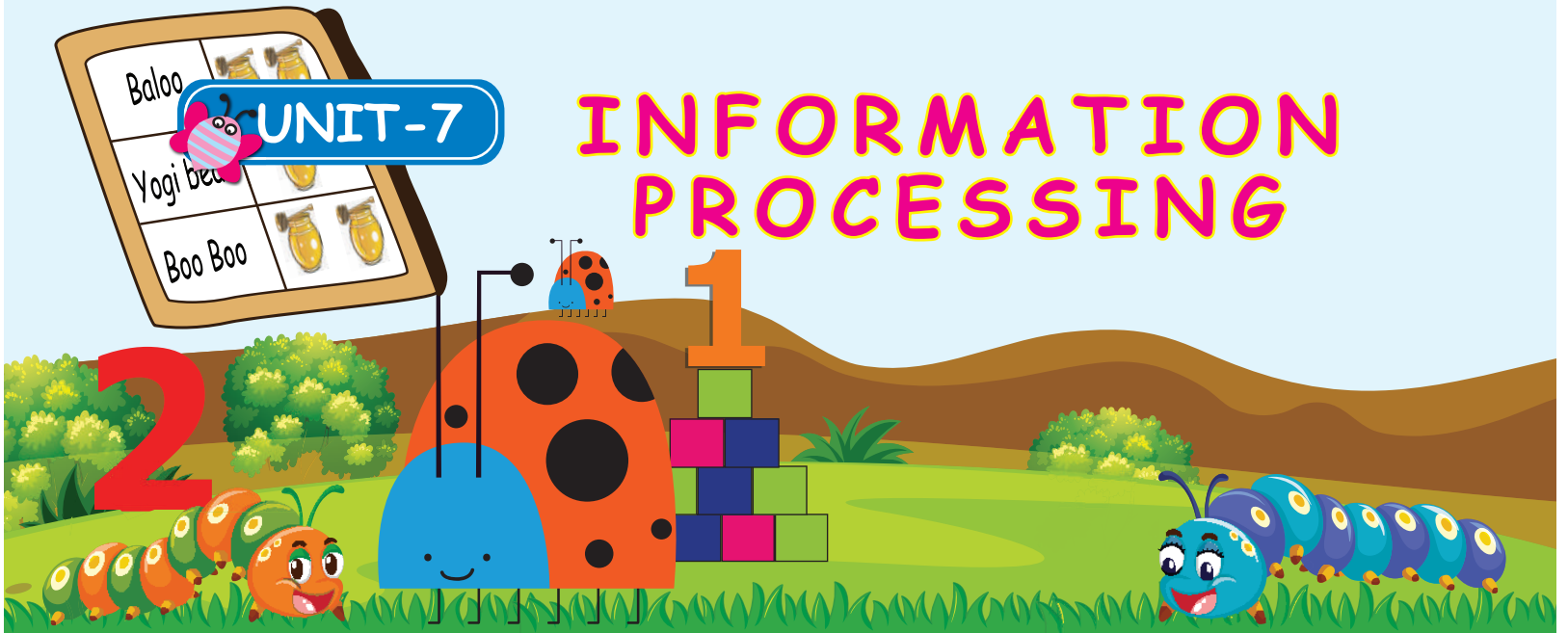
Exercise 6.6

I. Circle the greater fractions

1. $\dfrac{1}{3}$, $\dfrac{2}{3}$ 2. $\dfrac{3}{4}$, $\dfrac{1}{4}$ 3. $\dfrac{2}{5}$, $\dfrac{4}{5}$ 4. $\dfrac{6}{8}$, $\dfrac{3}{8}$ 5. $\dfrac{4}{10}$, $\dfrac{3}{10}$ 6. $\dfrac{2}{9}$, $\dfrac{7}{9}$

II. Tick the smaller fractions

1.

2.

3.

Q1R3T2

UNIT-7

INFORMATION PROCESSING

7.1 **Modelling**

1. **Route Map**

   • Able to locate short and long paths.

   • Able to find out and check for connectivity between places.

L3D1S3

Shortest path : School   house.

School   play ground   house

Longest path
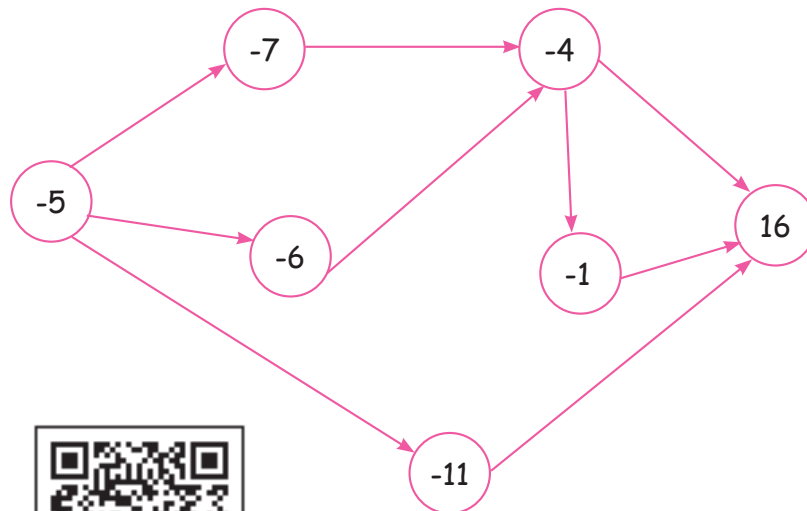
School   library   computer centre + house

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Activity 1

☞ In how many ways you can go from your home to the hospital ?

☞ Draw a path and then Identify shortest path and longest path.

Activity 2

Write the shortest and longest path of addition of 16

Exercise 7.1

L7T2L3

(i)   How many paths are there to reach temple from bus stop?

(ii) Which is the longest path and shortest path?

(iii) Specify the two places on the route from market to school?

(iv) _____ is the places found between temple and mosque

   (a) Bank   (b) textile   (c) Library

EXAMPLE

Creating a plan to set – up a garden in the school.

Step 1   :   Levelling the land of 6m length and 5m Breadth.

Step 2   :   5kg seed preparation

Step 3   :   Seeding 30cm intervals

Step4   :   Setting up fence with a 22 metre Circumference.

Step5   :   Watering once in five days

Activity 1

List out the steps for the cleanliness programme in your school.

One of the teams frame the rules. One team prepares to play and one of the team monitor the game.

Water filling Competition

EXAMPLE

Group I   :   Making the students to stand in line.
Group II   :   Measuring the height of the students.
Group III   :   Taking notes.

Name	Height in cm
Guru	120
Selvi	124
Kumar	110
Ammu	108

Group IV   :   Transfer of students based on height.
Group V   :   Ask the students to sit down in their places.
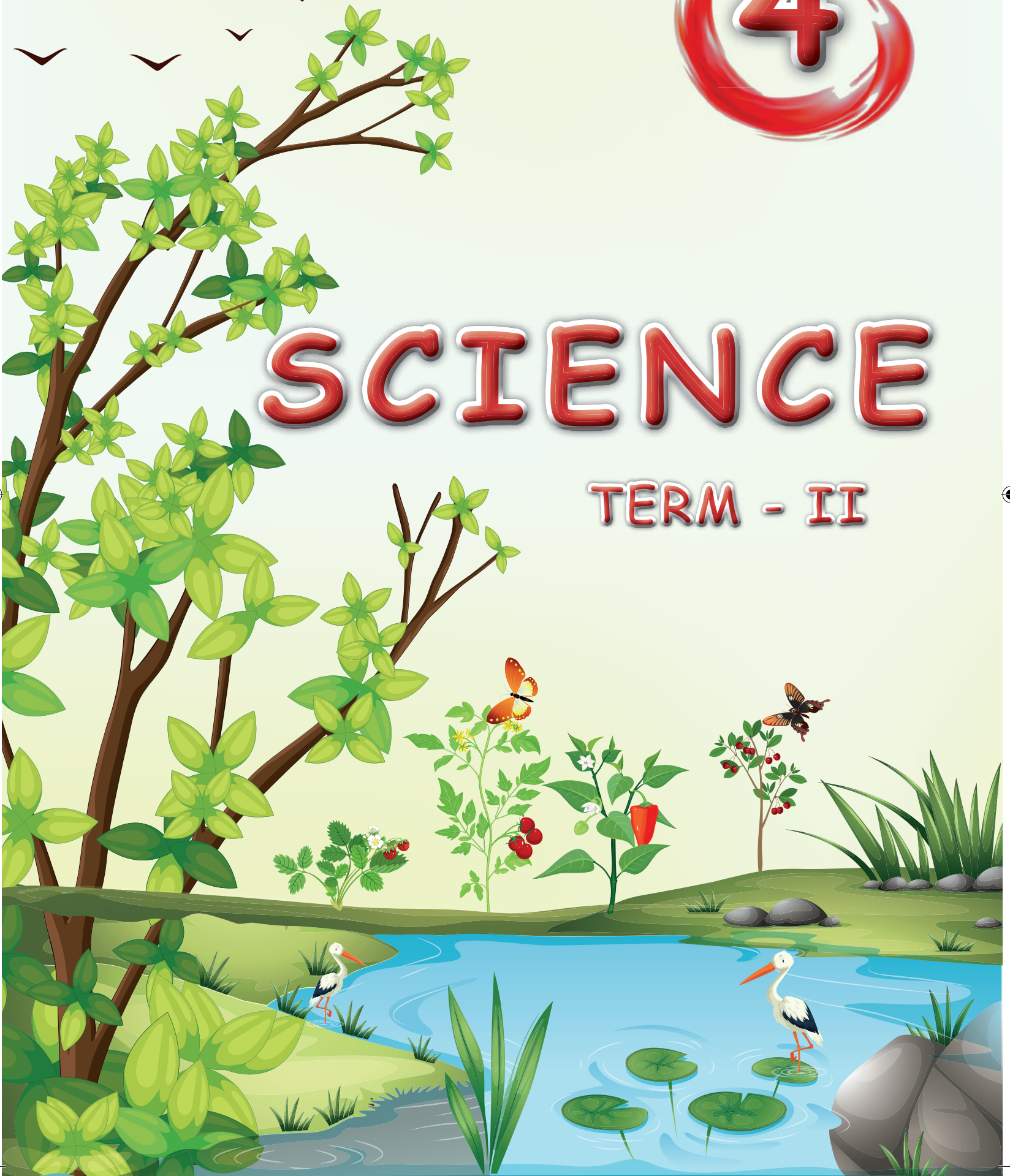
Exercise 7.2

1. Prepare a plan to buy the necessary books for the school library. Arranging the books in order.

2. To prepare a project on the school annual day function.

4

SCIENCE

TERM - II

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