



# CORNERSTONE JUNIOR SCHOOL - MUKONO

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## P.4 MATHEMATICS SELF -STUDY LESSONS SET 2

TOPIC : FRACTIONS  
SUB TOPIC : TYPES OF FRACTIONS

LEARNING OUTCOMES :

By the end of the lesson, you should be able to:

- Describe a different types of fractions
- Identify different the types of fractions
- Illustrate the types of fractions.

Introduction :

- Maria had an apple and cut into four parts in order to share it with her 3 friends.
- She gave away 3 parts and ate the remaining part of the apple she had.
- The small parts she obtained from the apple she had is what is termed as a **fraction**.

**Fractions**

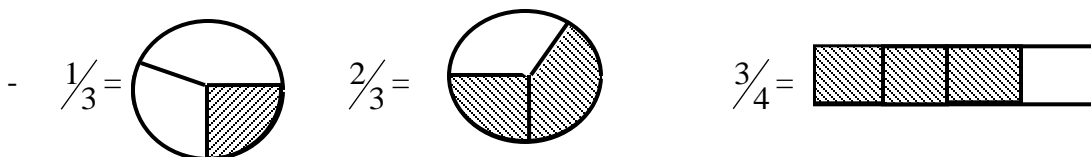
- A fraction is a part of a whole
- In a fraction like  $\frac{3}{5}$ , the upper number 3 is called the numerator and the lower number 5 is the denominator.

**Types of fractions**

a) **Proper fractions**

- A proper fraction is a fraction whose numerator is less than the denominator eg.  $\frac{3}{4}$ ,  $\frac{1}{3}$ ,  $\frac{2}{3}$  etc.
- Proper fractions are also termed as simple fractions.

Examples

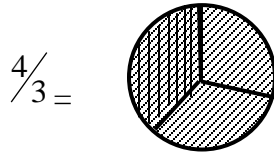


**b) Improper fraction :**

- An improper fraction is a fraction whose numerator is bigger than the denominator.

e.g  $\frac{4}{3}$ ,  $\frac{3}{2}$ ,  $\frac{7}{3}$ ,  $\frac{9}{2}$  etc.

Example



**c) Mixed numbers:**

Mixed numbers are numbers that have a whole and a proper fraction

e.g  $1\frac{1}{2}$ ,  $2\frac{1}{4}$ ,  $3\frac{1}{3}$

- Mixed numbers – have a whole and a proper fraction e.g  $1\frac{1}{2}$ ,  $2\frac{1}{4}$ ,



**Activity**

1. Name any two types of fractions.
2. Write 3 examples of
  - a. Proper fractions
  - b. Improper fractions

3. Name the fractions below.

a.  $\frac{2}{5}$

b.  $\frac{6}{5}$

4. Write proper or improper fraction besides each fraction

a.  $\frac{2}{3}$

b.  $\frac{3}{4}$

b.  $\frac{1}{3}$

d.  $\frac{4}{3}$

## **LESSON 2.**

**TOPIC** : **FRACTIONS**  
**SUB TOPIC** : **CHANGING MIXED NUMBERS TO IMPROPER FRACTIONS**

### **LEARNING OUTCOMES :**

By the end of the lesson, you should be able to:

### **Subject :**

- Changes mixed numbers to improper fractions.

### **Life skills**

- Problem solving

### **Introduction**

#### **Mental work**

1.  $3 \times 2 =$
2.  $4 \times 3 =$
3.  $7 + 4 =$
4. Name the type of fraction  $\frac{2}{5}$
5. Find the product of 4 and 5

## **CONTENT**

### **Converting mixed numbers to improper fractions**

#### **NOTE:**

- To change mixed numbers to whole numbers, multiply the denominator by the whole number, add the numerator to the result and then divide by the denominator. ie,

$$\frac{(D \times W) + N}{D} =$$

W= Whole  
D = Denominator  
N = Numerator

### Example 1

Change  $3 \frac{2}{5}$  to improper fraction

$$\begin{aligned} 3 \frac{2}{5} &= \frac{(D \times W) + N}{D} \\ &= \frac{(3 \times 5) + 2}{5} \\ &= \frac{15 + 2}{5} \\ &= \frac{17}{5} \end{aligned}$$

### Converting improper fractions to mixed numbers

#### Example II

Express  $\frac{5}{2}$  as a mixed number.

##### Method 1

$$\begin{aligned} \frac{5}{2} &= \left( \begin{array}{|c|} \hline | \\ \hline \end{array} \right) \left( \begin{array}{|c|} \hline | \\ \hline \end{array} \right) | \\ &= 2 \text{ r } 1 \\ &= 2 \frac{1}{2} \end{aligned}$$

##### Method 2

$$\begin{aligned} \frac{5}{2} &= \overset{2 \text{ r } 1}{\overline{) 2 \ 5}} \\ (2 \times 2) &= \frac{4}{1} \\ \frac{5}{2} &= 2 \frac{1}{2} \end{aligned}$$

### Note

- After dividing, the **quotient** is written as a whole number, the remainder is the numerator and the divisor is the denominator.
- Remember, quotient is the result got after dividing

### Activity

1. Convert the following fractions to improper

a.  $3 \frac{1}{5}$

b)  $4 \frac{1}{2}$

c)  $9 \frac{1}{4}$

d)  $12 \frac{1}{4}$

2. Change the following improper fractions to mixed numbers.

a.  $\frac{4}{3}$

b)  $\frac{9}{5}$

c)  $\frac{13}{7}$

d)  $\frac{21}{4}$

### **LESSON 3**

**TOPIC : FRACTIONS**

**SUB TOPIC : FINDING EQUIVALENT FRACTIONS**

**LEARNING OUTCOMES :**

By the end of the lesson, you should be able to:

- Describes an equivalent fraction
- Identifies counting or natural numbers
- Finds equivalent fractions using counting numbers.

#### **Life skills**

- Critical thinking
- Effective communication

#### **Introduction ;**

- Let us review multiplication tables of table 3, 4, 5 and 6 in the mental work.

#### **Mental work**

-Let learners recite table 3, 4 and 6.

**CONTENT :**

#### **Equivalent fractions**

- Equivalent fractions are fractions which have the same value.
- Equivalent fractions are got by multiplying both the numerator and denominator by the same counting numbers beginning with 2, 3, 4, 5..... etc.
- Remember, counting numbers are numbers used in counting eg, 1, 2, 3, 4, 5..... etc.

- We don't multiply by the first counting number which is **one** because any number multiplied by one is that same number of which it's the given fraction.

### Example

1. Find the equivalent fractions for

a)  $\frac{2}{3}$

$$\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{2 \times 3}{3 \times 3} = \frac{2 \times 4}{3 \times 4}$$

$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$$

- Remember the counting number is multiplied by the numerator and the

### Finding missing numbers in equivalent fractions

#### Note:

- When finding the missing numerator or denominator, list down the equivalent fractions and then compare the values which correspond with the given values.

### Example

1. Find the missing number.

$$\frac{1}{2} = \frac{\square}{6}$$

$$\frac{1}{2} = \frac{1 \times 2}{2 \times 2} = \frac{1 \times 3}{2 \times 3} = \frac{1 \times 4}{2 \times 4} = \frac{1 \times 5}{2 \times 5}$$

$$\frac{1}{2} = \frac{2}{4} = \frac{\square}{6} = \frac{4}{8} = \frac{5}{10}$$

$$\underline{\underline{\frac{1}{2} = \frac{\square}{6}}}$$

## Activity

1. Find the next three equivalent fractions for the following fractions:-

a.  $\frac{2}{5}$

b.  $\frac{1}{4}$

c.  $\frac{2}{7}$

2. Find the missing numbers in the following;

a.  $\frac{2}{3} = \frac{\square}{15}$

b)  $\frac{1}{4} = \frac{\square}{12}$

3. Fill in the missing numbers

a.  $\frac{3}{4} = \frac{15}{\square}$

b)  $\frac{5}{12} = \frac{15}{\square}$

## LESSON 4

**SUB TOPIC : REDUCING FRACTIONS**

**LEARNING OUTCOMES :**

By the end of the lesson, you should be able to:

- Reduces fractions to the their lowest terms

### **Life skills**

- Critical thinking
- Co-operation.

### Introduction

- Review the concept of finding factors of numbers through mental work.

### **Mental work.**

1. List all factors of 6
2. List down all factors of 12.
3. Divide:  $18 \div 3$
4. List the first 3 equivalent fractions of  $\frac{2}{3}$
5. List down all factors of 18.

## CONTENT :


### Reducing fractions

- This refers to finding a lowest equivalent fraction by dividing the numerator and denominator with the same common factor.
- You can use any common factor or the greatest common factor ( G. C. F) of the two numbers.

### Examples

1. Reduce  $\frac{5}{10}$  to its lowest terms

$$\frac{5}{10} = \frac{5 \div 5}{10 \div 5} = \frac{1}{2}$$



5 is a common factor of 5 and 10 and that's why we are dividing it through the denominator and numerator.

2. Reduce  $\frac{9}{15}$  to its simplest form.

#### Solution

$$\frac{9}{15} = \frac{9 \div 3}{15 \div 3} = \frac{3}{5}$$

### Activity

Reduce the following fractions to their lowest terms.

a)  $\frac{9}{15}$

b)  $\frac{3}{6}$

c)  $\frac{2}{10}$

d)  $\frac{5}{20}$

Find the next three equivalent fractions of

a)  $\frac{1}{5}$

b)  $\frac{2}{3}$

c)  $\frac{4}{7}$

## LESSON 5



**SUB TOPIC : ARRANGING FRACTIONS**

**LEARNING OUTCOMES :**

By the end of the lesson, you should be able to:

- Explain the meaning of ascending and descending.
- Identifies similar words to mean ascending and descending order.
- Lists the equivalent fractions
- Compare values of fraction
- Arrange fractions in the required order.

**Introduction :**

- Focus remains on multiplication tables ( recite table 4, 5, 6 and 7 )since it still guides the work you are going to learn in this lesson.

**Mental work**

1. List the first 4 equivalent fractions of  $\frac{1}{8}$ .
2. List the first 7 multiples of 6.
3. Set P = {multiples of 5 less than 30}. Find n(P)
4. List the first 12 multiples of 3.
5. Set Q = {counting numbers less than 10}. List down all members of set Q.

**CONTENT :**

**Arranging fractions in order .**

- Fractions can be arranged in two forms basing on their value ie, ascending and descending order.
- Ascending order means arranging from the **smallest to the biggest**. It is also known as increasing order.
- Descending order means arranging from **the largest to the smallest**. It is also known as a decreasing order.

**Example:-**

1. Arrange  $\frac{1}{8}$ ,  $\frac{1}{4}$  and  $\frac{1}{5}$  in an ascending order.

Steps.

- List the equivalent fractions of the given fractions.
- Compare and identify equivalent fractions that have the same denominator.
- Since they share the same denominators, compare the numerator to guide you on the value and position of the lowest given equivalent fraction.

**Solution**

$$\frac{1}{8} = \frac{2}{16} = \frac{3}{24} = \frac{4}{32} = \frac{5}{40} = \frac{6}{48} = \frac{7}{56}$$

$$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{5}{20} = \frac{6}{24} = \frac{7}{28} = \frac{8}{32} = \frac{9}{36} = \frac{10}{40}$$

$$\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{4}{20} = \frac{5}{25} = \frac{6}{30} = \frac{7}{35} = \frac{8}{40}$$

∴ **Order from the smallest is**  $\frac{1}{8}$ ,  $\frac{1}{5}$ ,  $\frac{1}{4}$

**Activity**

1. Arrange the following in an increasing order.

i)  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{3}$

ii)  $\frac{1}{4}$ ,  $\frac{1}{5}$ ,  $\frac{1}{7}$

iii)  $\frac{1}{3}$ ,  $\frac{1}{8}$ ,  $\frac{1}{5}$

iv)  $\frac{1}{10}$ ,  $\frac{1}{5}$ ,  $\frac{1}{2}$

2. Arrange the following fractions in a decreasing order.

v)  $\frac{1}{7}, \frac{1}{9}, \frac{1}{2}$

vi)  $\frac{1}{3}, \frac{1}{8}, \frac{1}{4}$

vii)  $\frac{1}{4}, \frac{1}{6}, \frac{1}{3}$

viii)  $\frac{1}{3}, \frac{1}{9}, \frac{1}{12}$

## **LESSON 6**

**SUB TOPIC : COMPARING FRACTIONS**

### **LEARNING OUTCOMES :**

By the end of the lesson, you should be able to:

- Explain the meaning of ascending and descending order.
- Compares values of fractions.
- Uses correct symbols to compare values of fractions.

### **Life skills**

- Critical thinking
- Co-operation
- Responsibility

### **Introduction**

- In this lesson, you will still need to review multiplication tables.
- Recite table 2,3 ,4 ,5 and 6.

### **CONTENT :**

#### **Comparing fractions**

- Fractions are compared using the following signs.
  - $>$  is greater than
  - $<$  is less than
  - $=$  equal to
- When using  $<$  or  $>$  consider them as your mouth in that it will open to eat the bigger fraction as illustrated below.

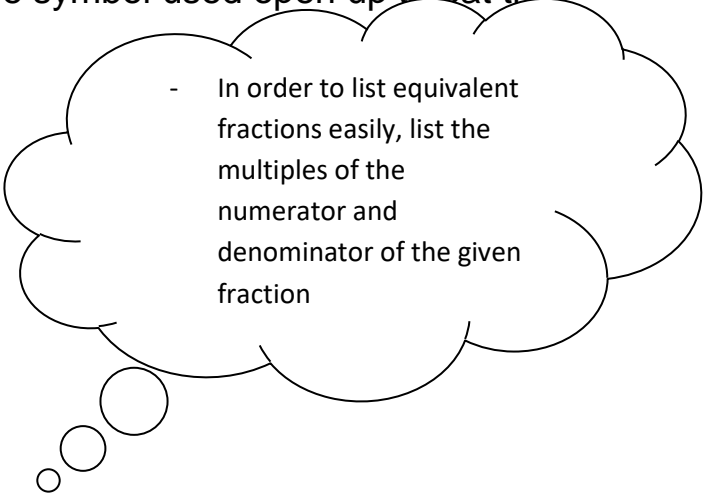
**Example:-**

Compare  $\frac{1}{2}$  and  $\frac{1}{3}$  using  $>$ ,  $<$  or  $=$ .

### Steps

- List the equivalent fractions of the given fractions.
- Compare the equivalent fractions and identify fractions with the same denominator
- Study the fractions identified and compare the numerators in order to determine the bigger or smaller value.
- For any case using  $<$  or  $>$ , let the symbol used open up to eat the bigger fraction.

Solution:  $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$   
 $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$   
 $\therefore \frac{1}{2} \quad \frac{1}{3} = \frac{3}{6} \quad \frac{2}{6}$   
 $= \frac{1}{2} > \frac{1}{3}$



- In order to list equivalent fractions easily, list the multiples of the numerator and denominator of the given fraction

### **Activity**

1. Compare the following fractions using  $>$ ,  $<$  or  $=$

i)  $\frac{1}{3} \text{ --- } \frac{1}{4}$

ii)  $\frac{5}{6} \text{ --- } \frac{5}{8}$

iii)  $\frac{1}{2} \text{ --- } \frac{1}{3}$

iv)  $\frac{1}{2} \text{ --- } \frac{2}{12}$

v)  $\frac{3}{4} \text{ --- } \frac{5}{6}$

vi)  $\frac{1}{2} \text{ --- } \frac{4}{8}$

vii)  $\frac{3}{12} \text{ --- } \frac{1}{4}$

viii)  $\frac{2}{3} \text{ --- } \frac{1}{5}$

ix)  $\frac{7}{8} \text{ --- } \frac{7}{9}$

x)  $\frac{9}{11} \text{ --- } \frac{11}{22}$

2. Which fraction is bigger

$\frac{1}{2}$  or  $\frac{1}{3}$

## **LESSON 7**

**TOPIC** : **FRACTIONS**

**SUB TOPIC** : **ADDITION OF FRACTIONS WITH THE SAME**

**DENOMINATOR**

**COMPETENCES** : BY THE END OF THE LESSON, THE LEARNER SHOULD be able to:

- Explains the meaning of denominator and numerator.
- Adds fractions with the same denominator.

### **Life skills**

- Creative thinking
- Responsibility

**Introduction** :

- Recite tables 2, 3, 4, 5, 6, and 7

### **CONTENT**

Note:

- When adding fractions with the same denominators, add the numerators and maintain only one denominator.

Examples

Work out the following:-

1. Add :  $\frac{1}{4} + \frac{2}{4}$

Solution

$$\frac{1}{4} + \frac{2}{4} = \frac{1+2}{4}$$

$$= \frac{3}{4}$$

2. Work out:  $1\frac{1}{3} + 4\frac{1}{3}$

- When given mixed numbers, add whole numbers separately from fractions but later present the answer as a whole/one.

### Solution

$$\begin{aligned}1 \frac{1}{3} + 4 \frac{1}{3} &= (1 + 4) + \frac{1}{3} + \frac{1}{3} \\ &= 5 + \frac{1+1}{3} \\ &= 5 + \frac{2}{3} \\ &= 5 \frac{2}{3}\end{aligned}$$

### **Activity**

Workout the following g:-

i)  $3 \frac{1}{2} + 2 \frac{1}{2}$

ii)  $4 \frac{1}{3} + 3 \frac{1}{3}$

iii)  $5 \frac{1}{4} + 4 \frac{2}{4}$

iv)  $1 \frac{1}{5} + 3 \frac{2}{5}$

v)  $4 \frac{1}{5} + 3 \frac{2}{5}$

vi)  $5 \frac{1}{3} + 1 \frac{1}{3}$

vii)  $\frac{1}{2} + \frac{1}{2}$

viii)  $\frac{1}{4} + \frac{2}{4}$

ix)  $\frac{5}{10} + \frac{1}{10}$

x)  $\frac{1}{5} + \frac{1}{5}$

## **LESSON 8**

**SUB TOPIC** : **Subtraction of fractions**

**COMPETENCES** : By the end of the lesson, the learner should:

- Subtract fractions with the same denominator.

### **Life skills**

- Creative thinking
- Critical thinking

## Introduction :

- Let us do this mental work first.

### Mental work.

1. Work out :  $\frac{1}{4} + \frac{2}{4}$
2. List the first 3 equivalent fractions of  $\frac{2}{4}$
3. Circle the larger fraction between  $\frac{1}{4}$  and  $\frac{2}{4}$
4. List down the first 4 multiples of 6.
5. Reduce  $\frac{2}{4}$  to its lowest terms

## CONTENT :

### Note ;

- 
- When subtracting fractions with the same denominators, subtract the numerators and maintain only one denominator.

### **Work out the following:-**

1. Subtract :  $\frac{7}{12} - \frac{1}{12} = \frac{7-1}{12}$

$$= \frac{6 \div 6}{12 \div 6}$$
$$= \frac{1}{2}$$

2. Workout .  $6\frac{2}{4} - 2\frac{1}{4}$

### Note

- With subtraction, subtract the whole numbers separately from the fractions. However you need to add the result to the difference of fractions.
- Remember, difference is the result you get after subtraction.

$$6\frac{2}{4} - 2\frac{1}{4} = (6 - 2) + \frac{2}{4} - \frac{1}{4}$$

$$= 4 + \frac{2-1}{4}$$

$$= 4 + \frac{1}{4}$$

$$= 4 \frac{1}{4}$$

### Activity

Subtract the following

i)  $\frac{2}{4} - \frac{1}{4}$

ii)  $\frac{5}{7} - \frac{2}{7}$

iii)  $\frac{5}{10} - \frac{3}{10}$

iv)  $\frac{6}{10} - \frac{3}{10}$

v)  $\frac{9}{11} - \frac{3}{11}$

vi)  $\frac{6}{7} - \frac{1}{7}$

vii)  $\frac{11}{12} - \frac{3}{12}$

viii)  $\frac{6}{14} - \frac{2}{14}$

ix)  $4\frac{2}{5} - 1\frac{1}{5}$

x)  $5\frac{3}{7} - 3\frac{1}{7}$

xi)  $6\frac{3}{7} - 3\frac{1}{9}$

xii)  $8\frac{5}{6} - 1\frac{4}{6}$

## LESSON 9.

**TOPIC ; FRACTIONS**

**SUB TOPIC : Addition and subtraction of fractions with the different denominators**

**COMPETENCES :** By the end of the lesson, the learner should be able to,

- Add and subtract fractions with different denominators.

### Life skills

- Problem solving
- responsibility



## Introduction :

- Recite table 5, 6, 7 and 8.
- Multiples of numbers are important in this lesson to help you find equivalent fractions.

## CONTENT :

### steps:

- Find the equivalent fractions of the given fractions
- Identify the equivalent fractions that have the same denominators
- Add or subtract the two identified fractions.
- When you get an improper fraction, remember to change it to a mixed number.
- Reduce to the lowest terms incase the result you get has common factors.

## Examples

Work out the following:-

1. Add :  $\frac{1}{2} + \frac{2}{3}$

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$$

$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15}$$

$$\begin{aligned} \frac{1}{2} + \frac{2}{3} &= \frac{3}{6} + \frac{4}{6} \\ &= \frac{3+4}{6} \\ &= \frac{7}{6} \\ &= 1\frac{1}{6} \end{aligned}$$

-Identify the equivalent fractions with the same denominator and add or subtract them.

-Remember, for similar denominators, add or subtract the numerators and maintain the denominator.

-Change to mixed number if you get an improper fraction and reduce if a common fraction has

2. work out ;  $\frac{3}{4} - \frac{2}{3}$

$$1. \frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16}$$

$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15}$$

$$\frac{3}{4} - \frac{2}{3} = \frac{9}{12} - \frac{8}{12}$$

$$= \frac{9-8}{12}$$

$$= \frac{1}{12}$$

### Activity :

#### Work out the following

i)  $\frac{1}{2} + \frac{2}{5}$

ii)  $3 \frac{1}{3} + 2 \frac{1}{2}$

iii)  $4 \frac{1}{4} + 1 \frac{1}{5}$

iv)  $4 \frac{1}{3} + 1 \frac{3}{4}$

v)  $\frac{1}{2} - \frac{1}{4}$

vi)  $\frac{2}{3} - \frac{1}{4}$

#### Application of fractions

1. James dug  $\frac{1}{3}$  of the garden on Monday and  $\frac{1}{3}$  of it on Tuesday.  
What fraction of the garden did he dig in the two days?

2. A cup is  $\frac{2}{5}$  full of water. John added  $\frac{1}{5}$  of the water to the cup. What fraction of the water is in the cup?

3. Kapere had  $\frac{3}{7}$  of a mango. His mother gave him more  $\frac{2}{7}$  of the mango.  
What fraction of the mango does he have?

4. Ojok had  $\frac{5}{8}$  of the eggs. If  $\frac{2}{8}$  of them got spoilt, what fraction of the eggs are good?
5. A tank was full of water and Amooti used  $\frac{5}{12}$  of the water to take water her crops. What fraction of the water remained in the tank?
6. A teacher had an orange she gave a  $\frac{1}{3}$  of the orange to Opio. What fraction of the orange did she remain with?

## **LESSON 10.**

**TOPIC ; FRACTIONS**

**SUB TOPIC : Expressing common fractions as decimals**

**COMPETENCES : By the end of the lesson,**

- Reads, spells, pronounces and describes new words such as Decimals / decimal places / decimal point/ common fractions.
- Describes a decimal fraction and decimal places.
- Works out problems on conversion of decimal fractions to common fractions.

### **Life skills**

- Problem solving
- Responsibility

**CONTENT :**

### **Changing common fraction to decimal fractions**

#### **Note:**

A common fraction is a fraction with a numerator and a denominator  
eg,  $\frac{3}{4}$  ,  $\frac{2}{3}$  ,  $\frac{9}{12}$  ,  $\frac{8}{10}$  etc

- A decimal fraction is a fraction with a decimal point eg, 0.4, 0.34, 5.6 etc
- Both proper and improper fractions are common fractions.
- Changing common fractions to decimal fraction depends on the nature of the denominator.

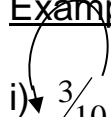
**Express the following as decimals.**

**Steps:**

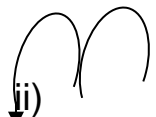
- You need to take note of the zeros the denominator has.
- The number of zeros will determine the number of places the decimal point moves. Eg, if the common fraction has a denominator as 10, the decimal point will move one place towards the left.
- In case of a mixed number, change it to an improper fraction and then move the decimal point towards the left depending on the number of zeros.

**Examples**

i)  $\frac{3}{10} = 0.3$   
2.0



ii)  $\frac{24}{100} = 0.24$



iii)  $2 \frac{4}{10} = 2 + \frac{4}{10}$   
 $= 2 + 0.4 \quad 0.4$   
 $= 2.4$

**Note**

- All whole numbers have a decimal point after their ones
- The jumps shown indicate the number of places the decimal point moves.
- The number of zeros on the denominator will determine the number of places the decimal point will move towards the left.

**Activity change the following to decimals**

i)  $\frac{3}{10}$

ii)  $\frac{4}{10}$

iii)  $\frac{5}{10}$

iv)  $\frac{6}{10}$

v)  $\frac{9}{10}$

$$\text{vi) } 14\frac{\phantom{00}}{100}$$

$$\text{vii) } 26\frac{\phantom{00}}{100}$$

$$\text{viii) } 64\frac{\phantom{00}}{100}$$

$$\text{ix) } 32\frac{\phantom{00}}{100} \quad \text{x) } 54\frac{\phantom{00}}{100}$$

$$\text{xi) } 2\frac{5}{10}$$

$$\text{xii) } 3\frac{24}{100}$$

$$\text{xiii) } 4\frac{16}{100}$$

$$\text{xiv) } 5\frac{17}{100}$$