

SESSION	: 8
CLASS	: IV
SUBJECT	: MATHEMATICS
CHAPTER NUMBER	: 11
CHAPTER NAME	: FRACTIONS
SUBTOPIC	: INTRODUCTION OF FRACTIONS
	AND WRITING FRACTIONS IN WORDS

#### CHANGING YOUR TOMORROW

Website: www.odmegroup.org Email: info@odmps.org

#### Toll Free: 1800 120 2316

Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

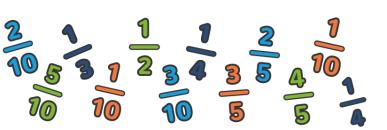
# **LEARNING OBJECTIVE**

 Enable the students to understand the meaning of fractions and also knowing the concept of fractions.

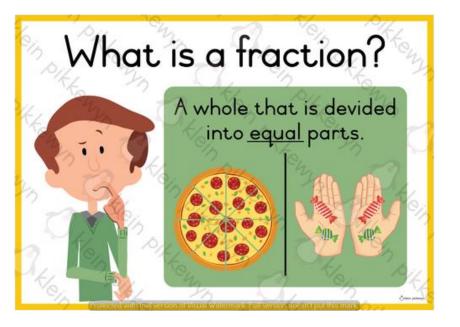




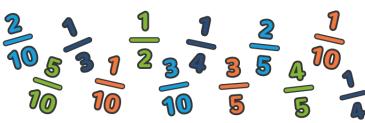
A **fraction** represents a part of a whole or, more generally, any number of equal parts.





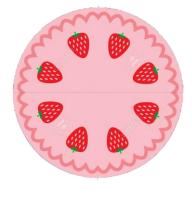


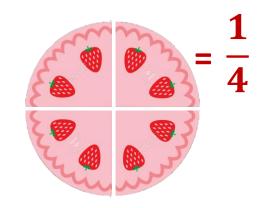
#### What is a fraction?

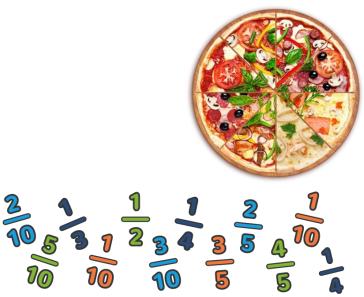




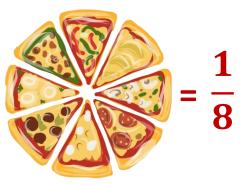






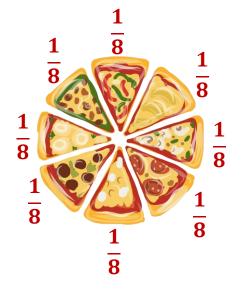


=









When the pizza is divided into 8 equal parts, then each part is known as **one-eight** of the whole pizza and is represented as  $\frac{1}{8}$  i.e. one pizza divided into 8 equal parts.

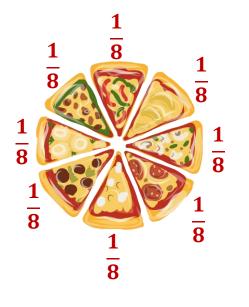


Here,  $\frac{1}{8}$  is known as a fraction and it is read as one by eight.

A fraction has two parts – **Denominator** and **Numerator**.







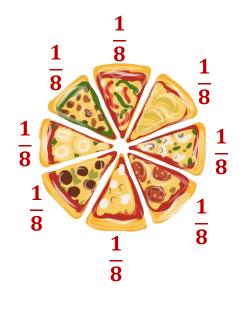
The number of equal parts one whole has been divided into, is called the **denominator** of the fraction. The number of parts of the whole that are under consideration, is called the **numerator** of the fraction.

In the above, **1** whole pizza was divided into **8** equal parts. So, **8** will be the **denominator** and **1** will be the **numerator** since we are considering the portion of the pizza.

While writing a fraction, the **numerator** and the **denominator** are separated by a **horizontal line**.

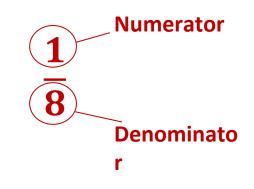






**Numerator** is written **above** the line while the **denominator** is written **below** the line.

The fraction for the given example will be



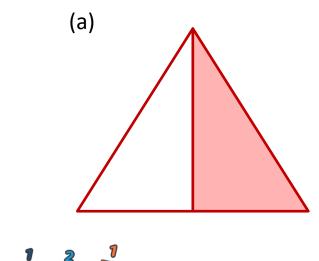




#### Write the fraction as represented by the figures given below.

Solution:





1 out of 2 parts is under consideration.

So, the fraction is  $\frac{1}{2}$ .

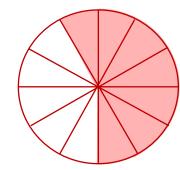


## Write the fraction as represented by the figures given below.

Solution:

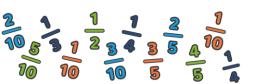






7 out of 12 parts is under consideration.

So, the fraction is 
$$\frac{7}{12}$$
.





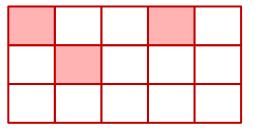
#### Example - 1

#### Write the fraction as represented by the figures given below.

Solution:

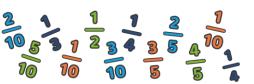






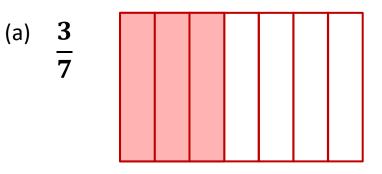
3 out of 15 parts is under consideration.

So, the fraction is 
$$\frac{3}{15}$$
.

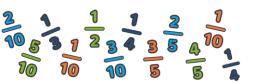




Represent the fractions given below by shading the respective figures.



Solution

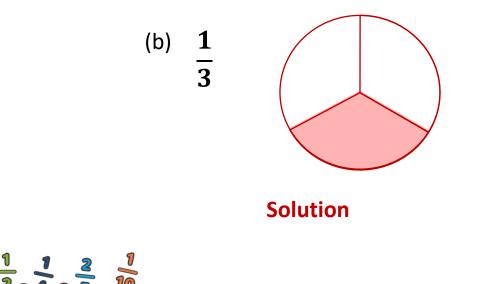






8

Represent the fractions given below by shading the respective figures.



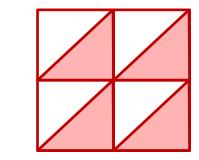




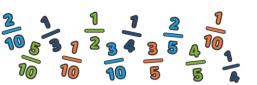
Represent the fractions given below by shading the respective figures.



4 8



**Solution** 







The **numerator** of a fraction is simply written in words while the **denominator** is written in the ordinal, plural form except in cases where the **denominator** is 2. the **numerator** and **denominator** are separated by a **hyphen** (-).





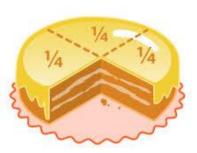
Example - 1



Will be written as **seven-eighths**.

7

8





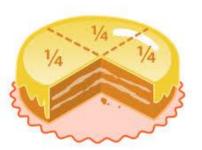
Example - 2





For fractions having 2 as their denominators, the word half is used after the hyphen.

Will be written as **one-half** and not one-second.



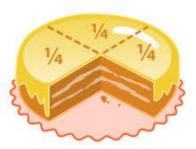
**Note:** for fraction with denominator 4, 'quarters' can also be used after the hyphen.



Example - 3

 $\frac{3}{4}$ 

#### Will be written as **three-quarters** or **three-fourths**.

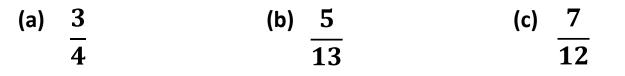






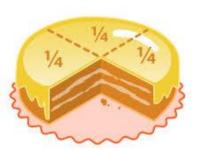
Example - 4

Write the following fractions in words.





(a) Three-fourths (b) Five-thirteenths (c) seven-twelfths







# **LEARNING OUTCOME:**

Students are able to understand the meaning and concept of fractions.



# THANKING YOU ODM EDUCATIONAL GROUP

