

**SESSION : 10**  
**CLASS : IV**  
**SUBJECT : MATHEMATICS**  
**CHAPTER NUMBER : 11**  
**CHAPTER NAME : FRACTIONS**  
**SUBTOPIC : TYPES OF FRACTIONS, EX-11 B**  
**Q.NO. 1, 2 AND 3**

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**CHANGING YOUR TOMORROW**

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# LEARNING OBJECTIVE

- Enable the students to understand the different types of fractions.

# TYPES OF FRACTIONS

## UNIT FRACTIONS

Unit **fractions** are those whose **numerator** is always **1**.



Unit Fractions



$$\frac{1}{2}$$



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



$$\frac{1}{7}$$



$$\frac{1}{16}$$

# TYPES OF FRACTIONS

## UNIT FRACTIONS

EXAMPLE :

Consider fractions  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{7}$ ,  $\frac{1}{12}$ ,  $\frac{1}{15}$ , etc. they are all unit fractions.



Unit Fractions



$$\frac{1}{2}$$



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



$$\frac{1}{7}$$

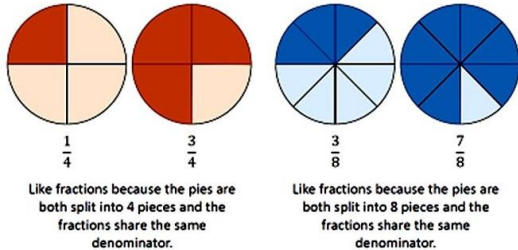


$$\frac{1}{16}$$

# TYPES OF FRACTIONS

## LIKE FRACTIONS

Like **fractions** are those **fractions** which have the same **denominator**.

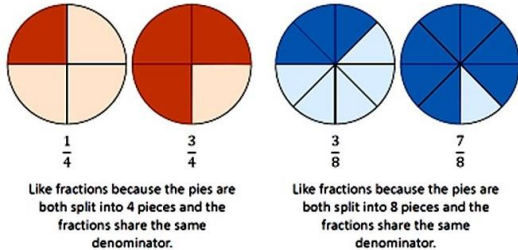


# TYPES OF FRACTIONS

## LIKE FRACTIONS

### EXAMPLE :

Consider fractions  $\frac{7}{15}$ ,  $\frac{9}{15}$ ,  $\frac{11}{15}$ ,  $\frac{12}{15}$ , etc. they are all like fractions as they have the same denominator i.e. 15.

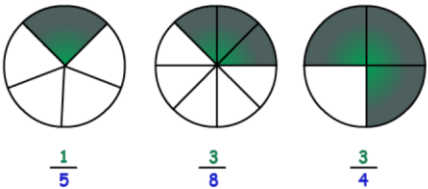


# TYPES OF FRACTIONS

## UNLIKE FRACTIONS

Unlike fraction are those **fractions** which have different **denominators**.

### Unlike fraction



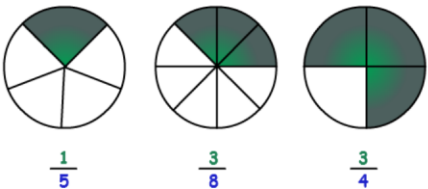
# TYPES OF FRACTIONS

## UNLIKE FRACTIONS

### EXAMPLE :

Consider fractions  $\frac{3}{5}$ ,  $\frac{2}{8}$ ,  $\frac{4}{7}$ ,  $\frac{9}{11}$ , etc. they are all unlike fractions as they have the different denominator.

### Unlike fraction





# TYPES OF FRACTIONS

## Exercise – 11(B)

1. Circle the unit fractions in the following fractions:

(a)  $\frac{5}{23}$ ,  $\frac{1}{2}$ ,  $\frac{8}{11}$ ,  $\frac{1}{4}$

(b)  $\frac{6}{13}$ ,  $\frac{1}{5}$ ,  $\frac{8}{15}$ ,  $\frac{9}{11}$

(c)  $\frac{1}{2}$ ,  $\frac{3}{4}$ ,  $\frac{4}{5}$ ,  $\frac{5}{7}$



Unit Fractions



$\frac{1}{2}$



$\frac{1}{4}$



$\frac{1}{7}$



$\frac{1}{16}$

# TYPES OF FRACTIONS

## Exercise – 11(B)

1. Circle the unit fractions in the following fractions:

(d)  $\frac{6}{7}$     $\frac{8}{10}$     $\frac{1}{7}$     $\frac{9}{10}$

(e)  $\frac{7}{13}$     $\frac{2}{3}$     $\frac{3}{4}$     $\frac{1}{9}$



Unit Fractions



$\frac{1}{2}$



$\frac{1}{4}$



$\frac{1}{7}$



$\frac{1}{16}$

# TYPES OF FRACTIONS

## Exercise – 11(B)

2. Find out the unlike fractions from the given fractions:

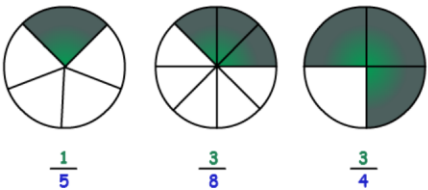
$$(a) \quad \frac{2}{3}, \quad \frac{7}{15}, \quad \frac{4}{15}, \quad \frac{2}{15} = \frac{2}{3}$$

$$(b) \quad \frac{4}{11}, \quad \frac{9}{11}, \quad \frac{10}{11}, \quad \frac{2}{5} = \frac{2}{5}$$

$$(c) \quad \frac{2}{9}, \quad \frac{7}{9}, \quad \frac{8}{9}, \quad \frac{3}{4} = \frac{3}{4}$$

Unlike fractions

**Unlike fraction**



# TYPES OF FRACTIONS

## Exercise – 11(B)

2. Find out the unlike fractions from the given fractions:

$$(d) \quad \frac{2}{3}, \quad \frac{1}{8}, \quad \frac{5}{8}, \quad \frac{7}{8} \quad = \quad \frac{2}{3}$$

$$(e) \quad \frac{6}{12}, \quad \frac{1}{6}, \quad \frac{2}{6}, \quad \frac{5}{6} \quad = \quad \frac{6}{12}$$

Unlike fractions

**Unlike fraction**



$\frac{1}{5}$



$\frac{3}{8}$



$\frac{3}{4}$



# TYPES OF FRACTIONS

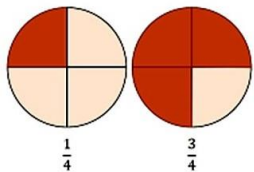
## Exercise – 11(B)

3. Circle the like fractions in the following fractions:

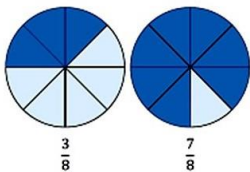
(a)  $\frac{7}{13'}$   $\frac{5}{13'}$   $\frac{9}{13'}$   $\frac{1}{7'}$   $\frac{2}{9'}$   $\frac{8}{13'}$

(b)  $\frac{1}{4'}$   $\frac{2}{4'}$   $\frac{3}{4'}$   $\frac{6}{7'}$   $\frac{5}{9'}$   $\frac{8}{11'}$

(c)  $\frac{2}{5'}$   $\frac{3}{5'}$   $\frac{7}{9'}$   $\frac{1}{5'}$   $\frac{4}{5'}$



Like fractions because the pies are both split into 4 pieces and the fractions share the same denominator.



Like fractions because the pies are both split into 8 pieces and the fractions share the same denominator.



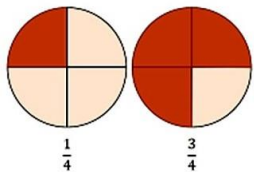
# TYPES OF FRACTIONS

## Exercise – 11(B)

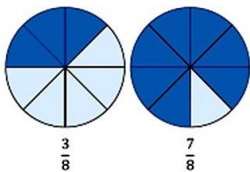
3. Circle the like fractions in the following fractions:

(d)  $\frac{1}{6'}$   $\frac{3}{6'}$   $\frac{4}{8'}$   $\frac{9}{11'}$   $\frac{4}{6'}$

(e)  $\frac{1}{7'}$   $\frac{1}{4'}$   $\frac{2}{7'}$   $\frac{2}{3'}$   $\frac{4}{5'}$   $\frac{3}{7'}$



Like fractions because the pies are both split into 4 pieces and the fractions share the same denominator.



Like fractions because the pies are both split into 8 pieces and the fractions share the same denominator.



# LEARNING OUTCOME:

Students are able to understand the different types of fractions.

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**