

Subject: MATHS

23.07.2020

Class 4

Based on N.C.E.R.T pattern

Lesson: 8A

Fractions

Dear students,

Today you are being given different kinds of Fractions and its examples and definition. Hope you will write and remember.

EXPT. NO.

NAME: CLASS IV

FRACTION (भिन्न)

Page No.:

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Fraction represents equal parts of a collection or group of objects.

It is denoted by $\frac{p}{q} = \frac{2}{3}, \frac{4}{5}, \frac{6}{7}$

p = Numerator

q = Denominator

①

Types of Fraction

1. Like fractions: \rightarrow Fractions that have the same denominator, are called like fraction.

ex- $\frac{2}{7}, \frac{3}{7}, \frac{4}{7}$ and $\frac{5}{7}$

2. Proper fraction: \rightarrow A fraction whose numerator is less than its denominator is called a proper fraction.

\rightarrow Its value is always less than one (1).

ex- $\frac{2}{3}, \frac{4}{7}, \frac{5}{8}, \frac{1}{3}$ etc.

Teacher's Signature:

(3) **Unlike Fraction** \rightarrow Fractions that have different denominators are called **unlike fractions**.

Ex - $\frac{2}{5}, \frac{3}{8}, \frac{7}{9}, \frac{5}{7}$ etc.

(4) **Improper Fraction** \rightarrow A fraction whose numerator is greater than or equal to its denominator is called a **Improper fraction**.

ex $\rightarrow \frac{8}{3}, \frac{8}{8}, \frac{11}{11}, \frac{9}{5}, \frac{9}{5}$ and $\frac{21}{17}$

(5) **Unit Fraction** \rightarrow Fraction with Numerator 1 are called **Unit fractions**.

ex: $-\frac{1}{2}, \frac{1}{5}, \frac{1}{7}, \frac{1}{9}$ etc.

(6) **Mixed Number or mixed Fraction** \rightarrow A combination of a whole number and a proper fraction is called a **Mix Number or a mixed fraction**.

Ex - ~~$\frac{2}{3}$~~ , $1\frac{4}{9}, 1\frac{5}{8}, 2\frac{5}{7}$ etc.

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(7) **Reciprocal Fraction** \rightarrow If the product of two fraction is 1, then each are called **Reciprocal fractions**.

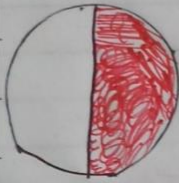
Ex: $\rightarrow \frac{2}{5}$ is the reciprocal of $\frac{5}{2}$

$$\text{Since, } \frac{2}{5} \times \frac{5}{2} = 1$$

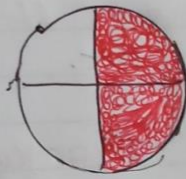
$\frac{3}{7}$ is the reciprocal of $\frac{7}{3}$

$$\text{Since, } \frac{3}{7} \times \frac{7}{3} = 1$$

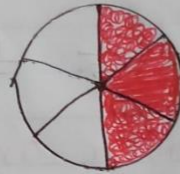
(8) **Equivalent fractions** \rightarrow



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



$$\frac{2}{4}$$



$$\frac{3}{6}$$

So, $\frac{1}{2} = \frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{5}{10} \dots$ etc.

Such fractions that represent the same part of the whole are called **equivalent fraction**.