<u>CLASS – 5</u> <u>SUBJECT: MATHEMATICS</u> <u>TOPIC : FRACTIONS</u> <u>WORKSHEET</u>



SYNOPSIS:

- A fraction is a part of a whole or a collection.
- A fraction has two parts. The number on the top of the line or the fraction bar is the numerator. The number below the fraction bar is called the denominator.
- Proper fractions are less than 1. The numerator is always less than the denominator. For example, $\frac{3}{4}$ is a proper fraction.
- Unit fractions are proper fractions with numerator 1. For example, $\frac{1}{5}$ is a unit fraction.
- Improper fractions have the numerator always greater than the denominator. For example, $\frac{8}{3}$ is an improper fraction.
- Like fractions have the same denominator. For example, $\frac{2}{5}$, $\frac{3}{5}$ are like fractions.
- Unlike fractions have different denominators. For example, $\frac{1}{4}$, $\frac{2}{7}$ are unlike fractions.
- Equivalent fractions stand for the same fraction. They can be written both in higher and lower terms.
- A fraction is in its lowest terms when the numerator and the denominator have no common factor except 1.
- Both like and unlike fractions can be compared. For unlike fractions, it is important to first convert them into like fractions and then compare the numerators.



EXAMPLES:

- A. Writing equivalent fractions:
- 1. Find out the equivalent fraction of $\frac{2}{4}$ in higher terms.



2. Find out the equivalent fraction of $\frac{12}{8}$ in lower terms.

$$\frac{\div 2}{\frac{12}{8}} = \frac{6}{4}$$
$$\frac{\div 2}{2}$$

<u>B.</u> Reducing a fraction to its lowest terms:

1. Reduce $\frac{4}{8}$ to the lowest terms.





C. Comparing like fractions:



<u>D.</u> Comparing unlike fractions (with the same numerator):



These are unlike fractions with the same numerator, so the greater the denominator, the smaller the fraction.

E. Comparing unlike fractions (with different numerator) :

1. By changing fractions into like fractions:



2. By using the LCM method:



3. By cross-multiplying method: 3 + 2 = 2



Students refer to the following videos:

- 1. <u>https://www.youtube.com/watch?v=N3_8MmaiLE</u>
- 2. https://www.youtube.com/watch?v=AQZE-xEeleg
- 3. https://www.youtube.com/watch?v=4xFwkDSMVw4
- 4. https://www.youtube.com/watch?v=rt5cvNDj6lo

WORKSHEET:

- 1. Find out the equivalent fractions of $\frac{2}{6}$, $\frac{3}{4}$, and $\frac{1}{3}$
- 2. Reduce to lowest terms by dividing the numerator and denominator by their common factors.

a) $\frac{3}{9}$ b) $\frac{6}{18}$ c) $\frac{12}{18}$ d) $\frac{6}{12}$ e) $\frac{18}{20}$

3. Rewrite the following fractions in ascending order:

a)	2514	1-)	4	4	4	4
	5'5'5'5	D)	8	' <u>1</u> '	3	5

4. Rewrite the following fractions in descending order:

``	2	9	3	7	(1) 2 1 3 5
a)	10'	10	10	10	b) $\frac{-}{3}, \frac{-}{5}, \frac{-}{4}, \frac{-}{6}$

- 5. Complete the following exercises from the chapter:
 - a) Exercise 4.1 D (1-5) on Page no. 61.
 - b) Exercise 4.2 B (1-5) on Page no. 62.
 - c) Exercise 4.3 A (1-4) on Page no. 66.
 - d) Exercise 4.3 B (1-4) on Page no. 66.

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