Class: 5
Subject: Mathematics
Chapter: Fraction

(Students please watch the given videos attentively before proceeding with the lesson)

What is fraction?
A fraction is a part of a whole or a collection.
There are four types of fractions:
a. Proper fractions, are less than 1. Numerator is always less than the denominator. (e.g. 1/3, 3/4 and 1/2)
b. Improper fractions, are greater than 1. Numerator is always greater than the denominator. (e.g. 5/2, 8/3 and 9/5)
c. Like fractions, have the same denominator. (e.g. 2/5, 3/5, and 7/5)
d. Unlike fractions, have different denominators. (e.g. 1/3, 2/7, and 5/4)

https://youtu.be/jRVBlON-hIc
(*The above video will help you understand the different types of fractions*)

A. *Complete the table of equivalent fractions.*

	Multiply Numerator and Denominator by			
	2	3	5	6
1/2	2/4			
1/3				
2/3				
2/5				

B. Write an equivalent fraction in the lower terms.
(*Tip: Divide the numerator and the denominator by a common factor*)
1. 3/12
2. 8/40
3. 15/25
4. 14/21

5. 11/22

C. <u>Compare the following fractions and put > or <.</u>

1. 3/7 __ 5/7
2. 6/7 __ 6/11
3. 2/3 __ 2/4
4. 11/15 __ 3/15
5. 8/3 __ 2/3
6. 4/9 __ 5/8

https://youtu.be/rt5cvNDj6lo
(The above video will teach you how to arrange fractions in an ascending and descending order)

D. <u>Arrange is ascending order.</u>

1. 7/8, 5/6, 3/4, 2/3
2. 4/6, 3/8, 5/16, 6/12

E. <u>Arrange is descending order.</u>

1. 2/3, 1/5, 3/4, 5/6
2. 2/7, 9/14, 11/14, 13/28

F. <u>Find the sum.</u>

https://youtu.be/L8bY9O0-j_4
(The above video will help you understand the addition of various types of fractions)

1. 2/9 + 4/9
2. 5/6 + 5/8
3. 3/5 + 7/10
4. 4⅙ + 2½ + 1⅓

G. <u>Find the difference.</u>

https://youtu.be/lJ-tD9SbNWc
(The above video will help you understand the subtraction of fractions)

1. 3/4 - 1/4

2. 1/2 - 3/8
3. 3 - 3/4
4. 2⅜ - 1¼

H. <u>Multiply and write in the lowest term.</u>

https://youtu.be/987lSYKeEts
(The above video will help you understand the multiplication of fractions)

1. 9 x 1/2
2. 7 x 4/5
3. 3/7 x 21
4. 10 x 4/15

I. <u>Write the multiplicative inverse of these fractions.</u>

1. 2/5
2. 4/7
3. 1/2
4. 6/7

J. <u>Divide</u>

https://youtu.be/1BW9DSNAyOE
(This video will help you learn how to divide a fraction by a fraction)

1. 7 ÷ 1/2
2. 6 ÷ 2/3
3. 9 ÷ 5/6
4. 3/4 ÷ 3

K. <u>Word problems.</u>

1. Riya coloured 3/8 0f the boxes red and 4/8 of the boxes 4/8. What is the fraction of the boxes coloured?
2. Meera cut 3⅔ m from 5½ m long roll of rope. How much rope is left with him?
3. In a health camp each child is given 1/4 L of milk every morning to drink. How much milk is required for 12 children?

(Note: please complete the following exercises in your exercise copy; Ex 4.1 D 1 to 4, Ex 4.2 A 1 to 4, Ex 4.3 A 1 and 2, B 1 and 2, Ex 4.4 B 1, Ex 4.5 B 1, Ex 4.6 B 1 to 4, Ex 4.7 B 1 to 4, Ex 4.8 D 1)