LEARNING OUTCOMES: **Each child will be able to:**

* recall their knowledge of fractions.

* read and write part of a whole as a fraction.

*define equivalent fractions and generate many fractions

equivalent to a given fraction.

Children, get an activity folder ready for this lesson, as we are going to do some interesting activities in each class for a better understanding of the concept of fraction. You will also be able to answer the following questions:-

How fractions are important in our daily life?

Why do we need to include it in our learning in MATHEMATICS?

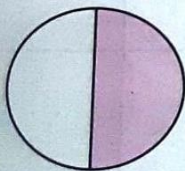**Children, let's watch the YouTube video for understanding fractions.**

https://youtu.be/GOC-xxUNUV4

Let's check what we have learnt:

Q1. and Q2. to be done in the notebook.

Q1.

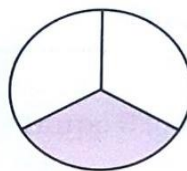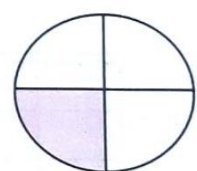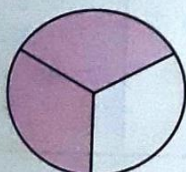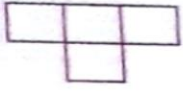. In each of the following, write the fraction representing the shaded portion.

(a)

(b)

(c)

(d)
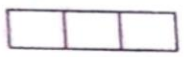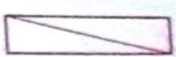
(e)
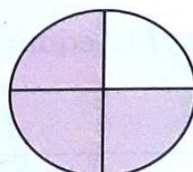
Q2.

In each of the following figures, shade as mentioned.

(a)   (b)   (c)   (d)

$\dfrac{1}{4}$ $\dfrac{1}{3}$ $\dfrac{1}{2}$ $\dfrac{3}{4}$

Divide each collection into suitable number of parts. (Use a line to separate).

(a)   (b)   (c)

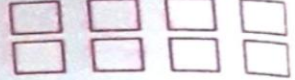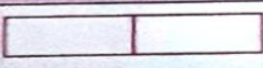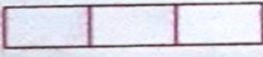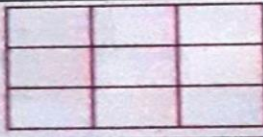$\dfrac{1}{2}$ of 6 = —————— $\dfrac{1}{3}$ of 12 = —————— $\dfrac{1}{4}$ of 8 = ——————

Write the fraction whose:

(a) Numerator is 5 and Denominator is 9   ——————

(b) Denominator is 7 and Numerator is 2   ——————

Colour the figure and fill in the blanks. (One has been done for you).

Figure	Shade	Fraction	Fractional number
1.	1 part out of 2 equal parts	$\dfrac{1}{2}$	one-half
2.	2 parts of 3 equal parts		
3.	6 parts of 9 equal parts		
4.	9 parts of 12 equal parts		

AIL ACTIVITY: FUN WITH FRACTIONS

Children, you need to record a video of maximum 3 minutes while doing this activity and send it to your respective Math teacher.

Draw and colour the flags of at least 5 countries. Observe and estimate the fraction covered by a particular colour in each flag. You can pick up the flags of the following countries:-

INDIA, IRELAND, INDONESIA, RUSSIA, GERMANY, FRANCE, ITALY, UGANDA, UKRAINE etc.

Children, now think and answer the following questions for each flag in the form of a table with the following headings. Example for the same is shown in the form of a table:-

Name of the country	Picture of the Flag	Colours in the Flag	Fraction of each colour
ITALY		1) Green 2) White 3) Red	Each part equal to $\dfrac{1}{3}$

*Write the number of parts each flag is divided into?

*Are the parts equal?

*What part of the whole is represented by each part?

*Write each part in the form of a fraction.

Alternative Academic Calendar Activity: AAC to be done and kept in your folder.

Children, you need to record a video of maximum 3 minutes while doing this activity and send it to your respective Math teacher.

ACTIVITY 1:

Magic Top

Let us make a magic top.

Take a cardboard piece.

Draw a circle of radius 3 cm and cut it out.

Divide the circle into 8 equal parts. Now each part is $\frac{1}{8}$ of the circle.

Colour $\frac{2}{8}$ red, $\frac{1}{8}$ orange, $\frac{1}{8}$ yellow etc. as shown here. Push a matchstick through the centre of the circle.

Your magic top is ready. Spin it fast!

What do you see? Can you see all the colours? Write what you see in your notebook.

EQUIVALENT FRACTIONS:

Let's watch the following video on equivalent fractions:

https://youtu.be/KU9J9jAaVK0

FINDING EQUIVALENT FRACTIONS

Example 1: Akshata and Jagriti were making fish out of paper plates.

Akshata took one paper plate and cut it into 2 equal parts and coloured 1 part or $\frac{1}{2}$ in red.

Jagriti took another paper plate and cut it into 4 equal parts. She coloured 2 parts or $\frac{2}{4}$ in green.

Both coloured the same amount. $\frac{1}{2}$ and $\frac{2}{4}$ are equivalent fractions. $\frac{1}{2} = \frac{2}{4}$

Observe the relation between numerator and the denominator:

$$\frac{1}{2} \quad = \quad \frac{2}{4} \quad = \quad \frac{4}{8} \quad = \quad \frac{8}{16}$$

Can you say that they can be obtained by multiplying numerator and denominator by the same number _____ (Yes/No)

Such fractions are known as **EQUIVALENT FRACTIONS**. If we multiply numerator and denominator of a given fraction by the same non-zero number, we obtain its equivalent fraction.

LET'S TRY:

a) Find 4 equivalent fractions of $\frac{3}{8}$

_____,_____, _____,_____.

b) Write an equivalent fraction of $\frac{2}{5}$ with denominator 35.

c) Circle the fractions equivalent to : $\frac{5}{7}$

1) $\frac{7}{10}$ 2) $\frac{10}{14}$ 3) $\frac{25}{35}$ 4) $\frac{10}{21}$

d) Complete the web so that all the fractions are equivalent: