

ACTIVITY-10

FRACTIONS

ADDITION OF FRACTIONAL NUMBERS

1. **What we have to do?**

To compute the sum of two fractional numbers by activity method.

2. **What is required?**

Thick paper, sketch pens, geometry box, a pair of scissors and adhesive.

3. **How much time required for this activity?**

30-40 minutes.

4. **What do you need to know?**

Concept of Multiples, Common Multiples and Fractions.

5. **How will you proceed?**

a. Add $\frac{1}{3}$ and $\frac{3}{5}$.

b. Find the Least Common Multiple of 3 and 5.

c. Take a thick white paper and cut a rectangular strip of dimensions 15 cm by 2 cm.

Divide it into 15 equal parts and shade each part with yellow colour as shown in Fig.1.



(Fig.1)

d. Take one more strip of same dimension (15 cm by 2 cm). Now, divide the strip into 3 equal parts and similarly, shade each part with green colour as shown in Fig.2.



(Fig.2)

e. Cut one part from the strip used in Fig.2 to represent $\frac{1}{3}$ as shown in Fig.3.



(Fig.3)

- f. Take another strip of same dimension (15 cm by 2 cm). Now, divide it into 5 equal parts and shade each part with purple colour as shown in Fig.4.



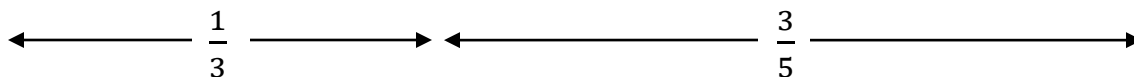
(Fig.4)

- g. Cut 3 parts from the strip used in Fig.4 to represent $\frac{3}{5}$ as shown in Fig.5.



(Fig.5)

- h. Paste the cut-outs of Fig.3 and Fig.5 on the strip used in Fig.1 as shown in Fig.6.



(Fig.6)

6. **What have you observed?**

- What is the Lowest Common Multiple (L.C.M.) of 3 and 5?
- How many divisions of yellow strip are covered by two colours (green and purple)?
- What will be the resultant fraction of Fig.6?

7. **What have you learnt?**

8. **What you have to do as extended activity?**

- My dog is $\frac{1}{5}$ of a year old. My cat is $\frac{3}{6}$ of a year older than my dog. How old is my cat?

9. **Real Life Application:**

Addition of Fractions is observed on daily basis in many areas like for construction purposes, daily purchases etc.