

## **ACTIVITY -2**

### **TOPIC: FRACTIONS AND DECIMALS**

### **TITLE: MULTIPLICATION OF FRACTIONS**

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

To compute, multiplication of a fraction by a fraction ( $\frac{1}{5} \times \frac{3}{4}$ ) through an activity.

2. **What is required?**

Graph sheet, sketch pens, a pair of scissors, geometry box and adhesive.

3. **How much time is required?**

30 – 40 minutes

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

Knowledge about basic operations and concept of fraction

5. **How will you proceed?**

- a. Take a graph sheet and draw a rectangle of 5 cm × 4 cm as shown in Fig.1

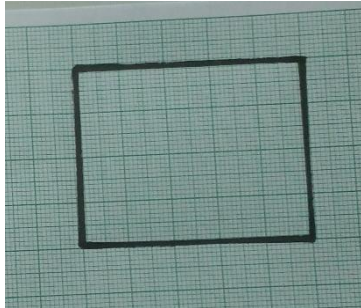


Fig.1

- b. As the denominator of first fraction  $\frac{1}{5}$  is 5, so divide the rectangle along the length into 5 equal parts as shown in Fig.2

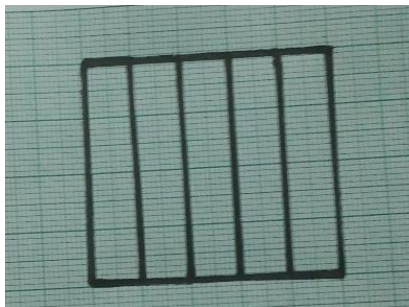


Fig.2

- c. Now, shade the rectangle to represent  $\frac{1}{5}$  with red colour as shown in Fig.3.

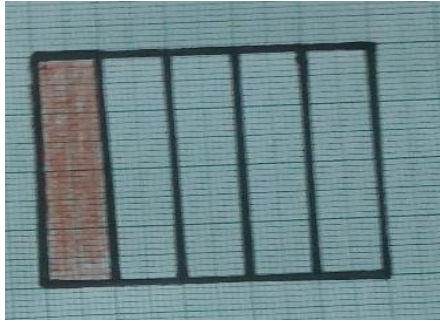


Fig. 3

- d. Next, as the denominator of the second fraction  $\frac{3}{4}$  is 4, so divide the rectangle along the breadth into 4 equal parts as shown in Fig.4.

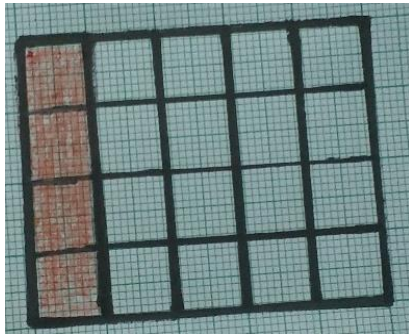


Fig.4

- e. Now, as the numerator of the fraction  $\frac{3}{4}$  is 3, so shade the first three parts of it along the breadth with green colour as shown in Fig.5.

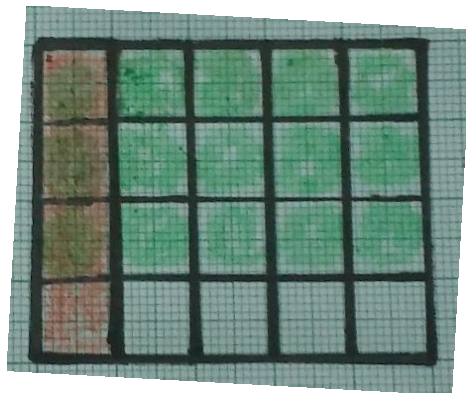


Fig.5

6. **What have you observed?**

- The double shaded region represents \_\_\_\_\_ part of the area of the rectangle.
- The resulting fraction is \_\_\_\_\_. (proper or improper)

7. **What have you learnt?**

8. **Extended Activity**

Find the value of  $\frac{3}{4} \times \frac{1}{2}$  by activity method.

**Real life Applications:**

The above concept is used in our day-to-day life incidents viz. baking, time, birthday parties, discounts, games, etc....