

ACTIVITY NO. - 7

Subject	MATHEMATICS
Class	VI
Chapter/Unit	Fractions
Topic	Equivalent Fractions
Time	30 minutes
Nature of Activity	Individual

What will I learn (Learning outcome)?

To compute fractions equivalent to a given fraction by folding and shading.

Skills:- Critical Thinking, Problem Solving, Psychomotor Coordination, Examining

What I have to do?

To compute fractions equivalent to a given fraction.

What do I require?

White chart paper, cardboard, pair of scissors, sketch pens, geometry box and adhesive.

What do I need to know?

Concept of Fractions

➤ **Teacher's Activity**

Teacher will enable the students to recall the concept of fractions and will explain the steps of the activity.

How will I proceed?

➤ **Student's Activity**

1. Let's find fractions equivalent to $\frac{1}{2}$.
2. Draw four rectangles of dimensions 16 cm by 2 cm on the white chart paper and cut these out.
3. Fold all the strips into two equal parts.
4. Unfold one of them, colour one part and paste the strip on the cardboard as shown in Fig.1.

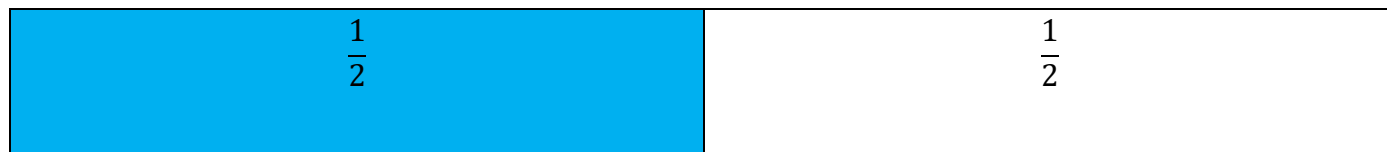


Fig.1

5. Now, take another strip, fold it again, unfold it and colour its two equal parts as shown in Fig.2.



Fig.2

6. Paste it on the cardboard below the first strip as shown in Fig.2.
7. Then, take third strip. Fold it twice. Unfold it and colour its four equal parts as shown in Fig.3.

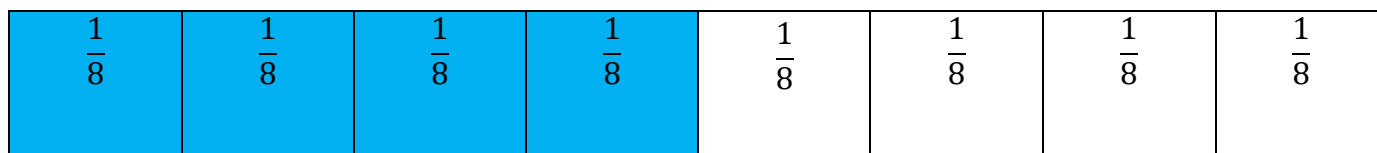


Fig.3

8. Paste it on the cardboard just below the second strip as shown in Fig.3.
9. Continue the process for the fourth strip and paste it on the cardboard as shown in Fig.4.

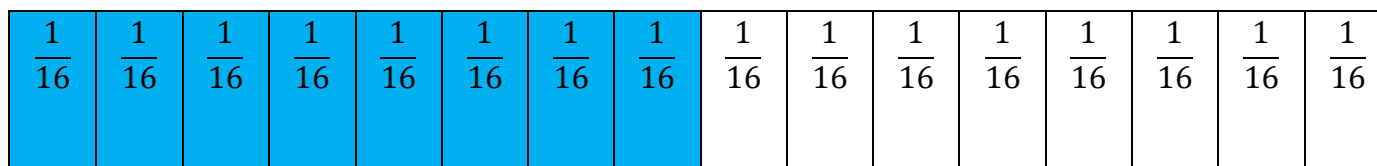


Fig.4

What have I observed?

- In Fig.1, coloured portion represents the fraction _____.
- In Fig.2, coloured portion represents the fraction _____.
- In Fig.3, coloured portion represents the fraction _____.
- In Fig.4, coloured portion represents the fraction _____.
- Thus, $\frac{1}{2} = \frac{1}{4} = \frac{1}{8} = \frac{1}{16}$.

What have I learnt?

To compute _____ fractions by folding and shading.

What am I curious to know?

Find first three equivalent fractions of $\frac{1}{3}$ using paper strips.

Let me evaluate myself

1. Find any five equivalent fractions of $\frac{7}{12}$.

- (a) _____
- (b) _____
- (c) _____
- (d) _____
- (e) _____

2. Replace $\square$ in each of the following by the correct number:

(a) $\frac{10}{30} = \frac{1}{\square}$

(c) $\frac{2}{3} = \frac{28}{\square}$

(b) $\frac{18}{24} = \frac{\square}{4}$

(d) $\frac{7}{35} = \frac{\square}{5}$

3. Find equivalent fraction of $\frac{105}{60}$ with numerator 35.

4. Check whether the given fractions $\frac{4}{5}$, $\frac{8}{10}$ are equivalent.

5. Find equivalent fraction of $\frac{54}{78}$ with denominator 13.
