

Lesson Planner

Class : IV

Subject : Mathematics

Ch.9 Halves and Quarters (Page no – 94 NCERT Book)

Teaching Aids: Text Book, Interactive board, Diagrams and cuttings
of chart paper

Book Name/Ref: For Class 4 NCERT textbook, New Maths Ahead

New Maths Sight by Britannica Learning

Next Maths by Next Education

Learning Objectives :

- Represent a part of a whole or collection as a fraction.
- Explain numerator and denominator in a fraction.
- State what equivalent fractions are, and check for equivalence.
- Convert improper fractions to mixed fractions and vice-versa.
- Compare fractions and say which is greater or lesser.
- Apply story sums in everyday life.
- Apply the acquired knowledge in higher classes and real life.

Methodology

- The topics will be explained using interactive discussions, audio visual aids, real life examples and different activities.
- Based on students' responses, teacher will explain the concept of fractions in day-to-day lives.
- Exercises and question answers discussed in the class taking active participation of students.
- Mind map will be shown to students to summarize the chapter.

Innovative / Experiential Learning:

- Demonstration of equivalent fractions with activity.

ICT Integration:

Power point presentation	Audio/ Video	Content through pen drive	Smart board Modules
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Mind maps through interactive board	Web surfing for research purpose	Online assignments	PDF files through emails
Survey through Google forms	Blogging	Data management	Videography

PW and Evaluation:

- Questions from the textbook exercise.
- Extra questions
- Revision test

Activity 1 - EXPERIENTIAL LEARNING

TOPIC – Equivalent Fractions

MATERIALS REQUIRED

- Chart Paper
- Scissors

Details of the activity and detailed instructions to carry it out –

1. From a chart paper, cut out 3 rectangles of the same size.
2. Fold the first rectangle into 2 equal parts and shade 1 part as shown. Cut out the shaded part.
3. Fold the second rectangle into 4 equal parts and shade 2 parts as shown. Cut out the shaded part.
4. Fold the third rectangle into 8 equal parts and shade 4 parts as shown. Cut out the shaded parts.
5. Now put all the parts you have cut one over the other and compare them.

You will find that they are of the same size.

Objective of the assessment of the learning :

This shows that : $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$

Thus, $\frac{1}{2}$, $\frac{2}{4}$ and $\frac{4}{8}$ are called equivalent fractions.

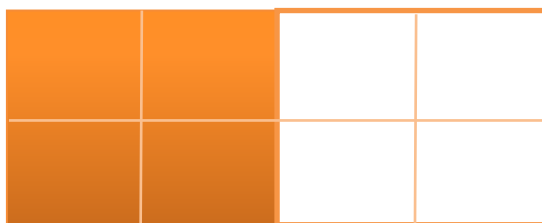
Diagram of paper cutouts



$\frac{1}{2}$ Shaded



$\frac{2}{4}$ Shaded



$\frac{4}{8}$ Shaded