

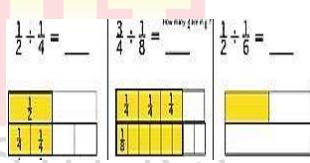
## **DAILY LESSON PLAN**

**Math GRADE:4**  
**(NO.13/13)**

DAILY LESSON PLAN	
<b>Unit 3:</b> Fractions.	Date: _____
<b>Topic:</b> Divide a fraction and Mixed Numbers by a Whole Number.	Year Level: 4
<b>Key Learning Area:</b> Mixed fractions/Numbers, Division, Proper fraction, Improper fraction.	
<b>Outcomes:</b> Students will be able to:	
<ul style="list-style-type: none"> <li>• Reduce a recipe by dividing fractions</li> <li>• Solve practical problems by dividing fractions</li> <li>• Apply sequential steps to divide fraction.</li> </ul>	

**Lesson Structure:**

Time	Introduction (Set):	Teaching Approaches
10 min.	Teacher will recall the previous lecture with the students. Tell your students that we know that what mixed numbers are!	<b>Multiplication Revision:</b>  Teacher will write an improper fraction on the

	<p>Also ask questions about the division of numbers. Write down some of the question related to division on the board.</p> <p><b>Fractional Models:</b></p> <p>Students will more learn through physical fun activities rather than just sitting and listening the lecture. Teacher will provide or demonstrate the division of a fraction with a whole number through Lego blocks or cut out fractional models.</p> <p>After that show the same examples in numerical form.</p>	<p>board and ask the students to convert the fraction into mix number by division.</p> <p>Solve some of the questions on n the board.</p> <p><b>Division of Fractions through Models:</b></p> <p>Teacher will demonstrate the example of division of any fractions by a whole number.</p> <p>Visualize the Division of a fraction through <i>LEGO Blocks</i> or simply just draw the fractional pictures on the board.</p> 
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#### LESSON STRUCTURE:

Time	Main Content:	Teaching Approaches

25  
min.

**Method 1:**

Steps for *Division* of a Fraction by a whole number:

Step 1: Convert the whole numbers into fraction by putting 1 under its denominator.

Step 2: Change division sign to multiplication sign.

Step 3: Invert the divisor fraction.

Step 4: Multiply numerators and denominators.

**Method 2:**

- *Step 1:* Multiply the bottom number of the fraction by the whole number
- *Step 2:* Simplify the fraction (if needed)

**Word Problems:**

Teacher will introduce the related word problems and encourage the students to think at least 5 of their own such word problems as home assignment.

**Mind-Teasers:**

Give your students some mind booster questions. Ask them to solve it and then demonstrate the solution on the board.

**Rules of Division Representation:**

Teacher will prepare a chart for demonstrational purpose. Write down the rules of division on the chart. Paste it on the board or in front of your class.

Teacher will apply the rules and demonstrate the example step by step. Ask the students to open the page number 86 of *Incredible mathematics grade 4 book*.

**Flip the Fraction Method:**

Teacher will introduce the method 1 also known as flip the fraction or reciprocal method with an example as:

$$\frac{2}{3} \div 3 = \frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$$

**Mind Teaser Questioning**

**Approach:**

Does it make sense?

Does  $\frac{1}{2} \div 3$  really equal  $\frac{1}{6}$  ?

Let the students solve the question by themselves and then demonstrate the solution on the board by using pizza model:

		Ask them to look at the pizza model.  When half a pizza is divided into 3 equal parts, each person gets one sixth of a whole pizza.  Half Pizza                          Divide by 3    So the answer is right: 1/6.
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Time	Conclusion:	Teaching Approaches
5 min.	Students will be able to:  <ul style="list-style-type: none"> <li>• Reduce a recipe by dividing fractions</li> <li>• Solve practical problems by dividing fractions</li> <li>• Apply sequential steps to divide fraction.</li> </ul>	Review the lesson with students.  Ask students, "what did we learn about Division of fractions today"?  Give enough practice as homework  Ask for questions.

#### Resources:

Board, board marker, Division of fraction real life-related worksheets, Division of Fractions worksheets, Incredible Mathematics Grade 4 book, notebooks etc.

#### Safety Consideration/ Materials

None

### Assessment

Related worksheets

Board test

Mind-teasers.

Quiz etc.

### Reflection

The students have understood that how to:

- Reduce a recipe by dividing fractions
- Solve practical problems by dividing fractions
- Apply sequential steps to divide fraction.

