

DAILY LESSON PLAN

Math GRADE:4

(NO.3/13)

INTERNATIONAL DAILY LESSON PLAN



Unit 3: Fractions.

Date: _____

Topic: Simplification of Fractions.

Year Level: 4

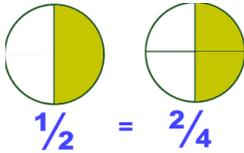
Key Learning Area: Simplest form of fractions, dividing with same number,
Equivalent factors.

Outcomes: Students will know the simplest form of fractions.

Students will able to convert any fraction into its simplest ratio.

Lesson Structure:

Time	Introduction (Set):	Teaching Approaches
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<p>10 min.</p>	<p>Prepare for the topic by recalling the previous knowledge about fractions.</p> <p>Closely observe their performance. Once you satisfied with their answers, tell them today we are going to learn how to simplify a given fraction.</p> <p>Define Simplification of Fraction:</p> <p>Writing a fraction in the simplest form means that the top and bottom numbers can no longer be divided by the same whole number exactly or evenly but other than 1.</p> <p>It will be more effective if teacher demonstrate the simplification of fraction through pictures first and then show the same simplification through numerical fraction.</p> <ul style="list-style-type: none"> Draw a pictorial way of the same example to show how the number 2 evenly reduce the fraction. <div style="text-align: center;">  <p>$\frac{1}{2} = \frac{2}{4}$</p> </div>	<p>Warm-up Activity:</p> <p>Enquire about the equivalent fractions also write down a question on the board and ask your students as:</p> <p>Do we need to multiply or divide the same number with numerator and denominator?</p> <p>Examples of Simplification of Fractions:</p> <p>Teacher will explain the simplification with simple example as:</p> <ul style="list-style-type: none"> The fraction $\frac{2}{3}$ is fully reduced. There isn't any whole number, other than 1, that can divide both 2 and 3 without having a remainder. Explain with an example of a fraction that isn't fully reduced is $\frac{2}{4}$. This is because both 2 and 4 can be divided by 2 to equal the fraction $\frac{1}{2}$.
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LESSON STRUCTURE:

Time	Main Content:	Teaching Approaches
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<p>25 min.</p>	<p>How to Reduce Fractions</p> <ul style="list-style-type: none"> • One way to reduce fraction is to observe if the given fraction's components are even or odd. • If the numerator and denominator of the fraction is even it can be easily divided by even multiplicative table or number • If the numerator and denominator are odd it can be divided by odd number. • One way to reduce the fraction is to find out the greatest common factor of the numerator and the denominator. Then divide them by their greatest common factor. <p>Reduction of Fraction through Greatest Common Fraction:</p> <p>Teacher will elaborate this method by following each step with example as:</p> <ul style="list-style-type: none"> • Determine the factors for both numerator and denominator. $\frac{8}{24}$ <p>Factors for 8= 1, 2, 4, 8. Factors for 24= 1, 2, 3, 4, 6, 8, 12, 24.</p> <ul style="list-style-type: none"> • Find out the largest common factors of both. 8 is the largest common factors of both. • Divide the numerator and denominator by the greatest common factor. $\frac{8}{24} \div \frac{8}{8} = \frac{1}{3}$ <p>Once the students get the concept ask them to solve the page number 70 of <i>incredible Mathematics of grade 4</i>.</p>	<p>Teacher will explain each way to reduce the fraction by example.</p> <p><i>Example 1:</i> Write down fractions on the board and point out that the given fractions are even so even number can simplify them.</p> $\frac{36}{56} \div \frac{2}{2} = \frac{18}{28} \div \frac{2}{2} = \frac{9}{14}$ <p>Hence, $\frac{9}{14}$ is the simplest form of the given fraction. No other same number can divide the both of the components of the fraction.</p> <p>Teacher will explain the od fraction by same approach.</p> <p>Pictorial Simplification of Fractions:</p> <p>Draw some pictures on the board or handover pictorial worksheets where students need to evenly simplify the picture and then write down the simplified fraction in numeral form.</p> <p>Write some fractions on the board and ask students to convert them into simplified fractional format.</p>
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Time	Conclusion:	Teaching Approaches
5 min.	Students will be able to: <ul style="list-style-type: none"> • Know that what the simplest form of fractions is. • Convert any fraction into its simplest ratio. • Know and apply the different methods for reduction of fractions. 	Review the lesson with students. Ask students, "what did we learn about simplification of fraction today"? Give enough practice as homework Ask for questions.

Resources:

Board, Board marker, Pictorial simplification of fraction worksheets, simplification the ratio 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:

- Simplify fractions into its simplest ratio.

- Apply the different methods for reduction of fractions.