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students develop an

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support they need to  
improve their  
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The content focus of

Volume One is rational

numbers and

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Learning Ways Of

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**and ...**

The goal of this lesson

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Rational Numbers

is to familiarize the reader with the properties of operations of rational numbers, and before that, how we construct and define this

specified set. Rational numbers On the set of natural numbers we could not define the operation '\$-\$' for all two natural numbers.

Also, in the set  $\mathbb{Z}$  we [...]

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**Construction of**

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**number systems -  
rational numbers -**

**Free ...**

Understand a rational number as a point on the number line.

Extend number line diagrams and

coordinate axes familiar from previous grades

to represent points on the line and in the

plane with negative number coordinates.

Recognize opposite signs of numbers as

indicating locations on

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opposite sides of 0 on  
the number line.

And

## **A Lesson Plan on Rational Number Lines**

Using Cases To

Algorithm: Step-1:

Obtain the rational

number. Step-2:

Determine the number  
of digits in its decimal

part. Step-3: Remove

decimal point from the  
numerator. Write 1 in

the denominator and

put as many zeros on

the right side of 1 as

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the number of digits in  
the decimal part of the  
given rational number.

And

**How To Convert**

**Decimal Number**

**Into Rational**

**Number - A ...**

The denominator in a  
rational number cannot  
be zero. Expressed as  
an equation, a rational  
number is a number.

$a/b$ ,  $b \neq 0$ . where  $a$  and  
 $b$  are both integers.

This equation shows  
that all integers, finite

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decimals, and repeating decimals are

rational numbers. In

other words, most

numbers are rational

numbers.

## **What Is a Rational Number? Definition and Examples**

If we take any rational number (fraction)

objective from the new middle years'

curriculum, for

example grade 7, N-59

(use manipulatives,

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pictures, and symbols to compare and/or order fractions) we can address specifically the measure interpretation, in particular, the concepts of part/whole, area of a region covered, and equivalence.

**Rational Number  
Teaching Ideas**

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As students with

diverse learning styles

fill the classroom,

many teachers don't

always have the time



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to plan lessons that  
use differentiated  
instruction (DI) to suit  
their distinct

aptitudes. This can  
involve adjusting:

Content — The media

and methods teachers

use to impart and

instruct skills, ideas

and information;

Processes — The

exercises and practices

students perform to

better ...

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**20 Differentiated**

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**Instruction**

**Strategies &**

**Examples | Prodigy**

Teaching children to

estimate values and

round numbers can

help to establish a

sense of relative values

for decimal numbers.

In the example given,

the child would be

taught to round 1.29

and say "1.29 is about

1.3. 1.3 is less than

1.4."

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**Best Practices:**

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## **Teaching Decimals, Fractions, and Percents ...**

and interrelated themes for improving the teaching and learning of algebra. •

Developing a deeper understanding of algebra. Although proficiency in arithmetic operations is important to becoming proficient in algebra, the recommendations advocate algebra instruction that moves

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students beyond

superficial Numbers

mathematics

And

**Teaching Strategies**

**for Improving**

**Algebra Knowledge**

**in ...**

foundations of the

rational numbers from

mathematical,

cognitive, and Ways Of

instructional points of

view, while the second

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in elementary and  
secondary schools. ...  
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problems using  
numerical and  
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and equations. 3. Solve  
multi-step real-life and  
mathematical

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problems posed with  
positive and negative  
rational numbers in  
any form (whole  
numbers, fractions and  
decimals) using tools  
strategically.

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