

## GRADE 7 MATH TEACHING GUIDE

### Lesson 7: Forms of Rational Numbers and Addition and Subtraction of Rational Numbers

Time: 2 hours

**Prerequisite Concepts:** definition of rational numbers, subsets of real numbers, fractions, decimals

**Objectives:**

In this lesson, you are expected to:

1. Express rational numbers from fraction form to decimal form (terminating and repeating and non-terminating) and vice versa;
2. Add and subtract rational numbers;
3. Solve problems involving addition and subtraction of rational numbers.

**NOTE TO THE TEACHER:**

The first part of this module is a lesson on changing rational numbers from one form to another, paying particular attention to changing rational numbers in non-terminating and repeating decimal form to fraction form. It is assumed that students know decimal fractions and how to operate on fractions and decimals.

**Lesson Proper:**

**A. Forms of Rational Numbers**

**I. Activity**

1. Change the following rational numbers in fraction form or mixed number form to decimal form:

a.  $-\frac{1}{4} = -0.25$

d.  $\frac{5}{2} = 2.5$

b.  $\frac{3}{10} = 0.3$

e.  $-\frac{17}{10} = -1.7$

c.  $3\frac{5}{100} = 3.05$

f.  $-2\frac{1}{5} = -2.2$

**NOTE TO THE TEACHER:**

These should be treated as review exercises. There is no need to spend too much time on reviewing the concepts and algorithms involved here.

2. Change the following rational numbers in decimal form to fraction form.

a.  $1.8 = \frac{9}{5}$

d.  $-0.001 = -\frac{1}{1000}$

b.  $-3.5 = -\frac{7}{2}$

e.  $10.999 = \frac{10999}{1000}$

# Grade 7 Math Teaching Guide

**RM Cervero**



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