

# Five-Step Rule and Exceptions Lesson 3

## Multi-Digit Repeating Decimal Number

### Teacher Guide

## Symbols and Concepts

- Multipurpose indicator
- Directly-over indicator
- Horizontal bar
- Termination indicator

## Objectives

The student will be able to:

- Read and write Nemeth braille symbols used in modified expressions
- Read grade-level modified expressions
- Understand that a horizontal bar can be used to indicate repeating digits in a decimal number
- Use the Five-Step Rule to write grade-level modified expressions

## Teaching Tips

- Before opening any BRF files in Duxbury,
  - Go into the Global menu.
  - Select "**Formatted Braille Importer.**"
  - Select the box for "**Read formatted braille without interpretation**" at the top of the window. This will ensure that nothing is changed when opening the BRF files.
- In addition to the embedded activities within the focused lesson, there is a follow-up activity.
- In the Five-Step Rule, a student may pause while they are reading the whole expression before being able to name it.
- When reading modified expressions in braille, the multipurpose indicator (dot 5) is often misread as a "1".
- It may be helpful to remind students that decimals can be written with or without the zero before the decimal point.
- The "L3-Five-Step-Problems-Only.brf" braille document may be used to supplement the lesson since it contains all of the examples in braille.

- The answers for the follow-up activity are available in SimBraille and braille.
- If needed, remind the student to check their work during writing activities.
- The Five-Step Rule provides a systematic way of reading and writing modified expressions.
- You may want to have the student practice reading the expressions as well. This can be done by using the answer key.