

# Division with Radical Expressions

## *Nemeth symbols and concepts addressed:*

- Radical expression
- Square root
- Index-of-radical indicator
- Index
- Radical symbol ( $\sqrt{\quad}$ )
- Radicand
- Termination indicator

## *Prerequisites:*

The following Nemeth symbols and concepts will be addressed in this lesson, but they will not be thoroughly explained, so the student should be already skilled in these areas prior to starting this lesson:

- Fractions
- Operation signs
- Exponents
- Equals sign

## *Objectives:*

The student will be able to:

- 1) Write problems in order to simplify radical expressions involving quotients
- 2) Read problems in order to simplify radical expressions involving quotients
- 3) Write problems in order to divide radical expressions
- 4) Read problems in order to divide radical expressions

## *Teaching tips:*

- Before opening any BRF files in Duxbury, go into the Global menu. Select "Formatted Braille Importer" and then check 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 one follow-up activity.

- When reading long problems to students, be sure to pause frequently to allow the student to finish braille each section of a problem before moving on to the next section. At a minimum, pause after each end root.
- The C braille document may be used to supplement the print copy of the lesson since it contains all of the examples and equations in braille. For example, the theorems associated with division of radical expressions is included in the C braille document.
- The single-word switch indicator (dot 6, dot 3) is used in this lesson. If needed, review this indicator with the student before beginning the lesson.
- The answers for the follow-up activity are available in SimBraille and braille. Please note that these are not formatted in cell 1 with run-overs in cell 3 since the word "Answer" is included.
- If needed, remind the student to check his/her work during writing activities.
- You may want to have the student practice reading problems using division with radical expressions as well. This can be done by using the answer key.