

# Linear Equations with a Multiplication Dot

## *Nemeth symbols and concepts addressed:*

- Multiplication dot ( $\cdot$ )
- Equals sign ( $=$ )
- General omission symbol
- Long dash (\_\_\_\_\_)
- Grouping symbols
- Open parenthesis
- Close parenthesis
- Opening simple fraction indicator
- Horizontal fraction line
- Closing simple fraction indicator

## *Objectives:*

The student will be able to:

- 1) Read linear equations with a multiplication dot, including those with a sign of omission
- 2) Write linear equations with a multiplication dot, including those with a sign of omission

## *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.
- It is very important that print be followed when writing problems or equations involving a multiplication sign. If the math or science teacher uses a particular multiplication sign, it is intentional.
- In addition to the embedded activities within the focused lesson, there is one follow-up activity.
- 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 equations with a multiplication dot as well. This can be done by using the answer key.

### *Materials Commercially Available:*

Materials that could be used from the American Printing House for the Blind ([www.aph.org](http://www.aph.org)) include

- Quick Pick Math: Multiplication (1-03572-00)
- Multiplication and Division Table Kit, Revised (5-82700-01)
- Math Flash for computers running Windows 7 or later (D-19910-ED; available for download at <https://tech.aph.org/>)
- Math Flash, Google Home Assistant Version (D-30028-AP; included with the Google Assistant app which is free)
- Math Flash, Amazon Alexa Version (D-19910-AS; included with the Amazon Alexa app which is free)
- Math Robot app for the iPad (D-30000-AP; available for download at <https://tech.aph.org/>)
- SlapStack Math app for iOS devices (D-30025-AP; available for download at <https://www.aph.org/product-category/downloads/page/2/>)
- Cranmer Abacus (1-03150-00)
- Large Abacus (1-03170-00)

### *Other Optional Materials:*

- Classroom textbook
- Student's book series