

# Linear Equations with a Multiplication Cross and Fractions

## *Nemeth symbols and concepts addressed:*

- Multiplication cross ( $\times$ )
- Equals sign ( $=$ )
- General omission symbol
- Long dash (\_\_\_\_\_)
- Fraction
- Opening simple fraction indicator
- Horizontal fraction line
- Closing simple fraction indicator

## *Objectives:*

The student will be able to:

- 1) Read linear equations containing a multiplication cross and one or more fractions
- 2) Write linear equations containing a multiplication cross and one or more fractions

## *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 cross and fractions 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

- Cranmer Abacus (1-03150-00)
- Large Abacus (1-03170-00)
- \*Number Line Device (may be helpful if a quick review of fractions is needed; 1-03480-01)
- Fractional Parts of Wholes Set (may be helpful if a quick review of fractions is needed; 1-03290-00)
- \*Unit 7: Fractions, Mixed Numbers, and Decimals (may be helpful if a quick review of fractions is needed; student consumables for both kits are in braille):

Large Print Kit: (7-03564-00: Teacher's Guide in Large Print)

Braille Kit: (5-03564-00: Teacher's Guide in Braille)

*\* WARNING: CHOKING HAZARD -- Small Parts. Not intended for children ages 5 and under without adult supervision*

### *Other Optional Materials:*

- Classroom textbook
- Student's book series