

How to Read and Write Linear Equations with a Multiplication Cross

Nemeth symbols and concepts addressed:

- Multiplication cross (\times)
- Equals sign ($=$)
- General omission symbol
- Long dash (_____)

Objectives:

The student will be able to:

- 1) Read linear equations with a multiplication cross
- 2) Read linear equations with a multiplication cross and a general omission symbol
- 3) Read linear equations with a multiplication cross and a long dash
- 4) Write linear equations with a multiplication cross
- 5) Write linear equations with a multiplication cross and a general omission symbol
- 6) Write linear equations with a multiplication cross and a long dash

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 are two follow-up activities.
- The answers for the follow-up activities are available in SimBraille and braille. Please note that the writing answers 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.

Materials Commercially Available:

Materials that could be used from the American Printing House for the Blind (www.aph.org) include

- Quick Pick Math: Multiplication (1-03572-00)
- Math Drill Cards: Multiplication Cards (Nemeth; 1-03554-00)
- 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