

BrailleNote Touch Plus Math Cheatsheet

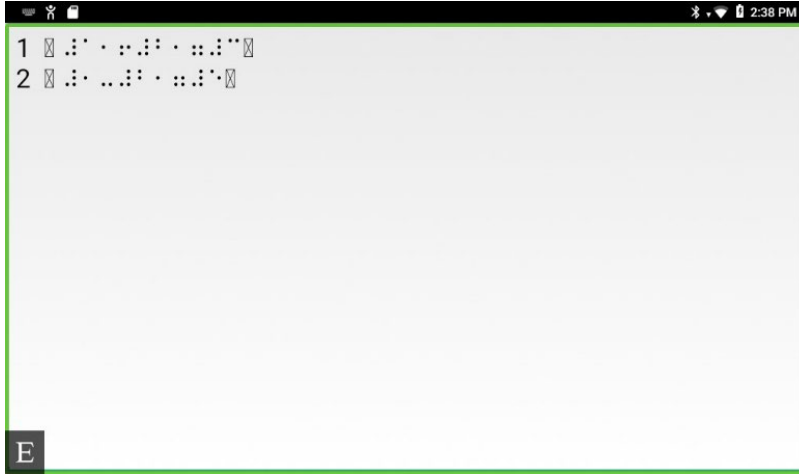


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BrailleNote Touch Plus User Tutorials

The BrailleNote Touch Plus must be configured with the correct braille settings. You can find Basic Startup, Settings, Wireless Connectivity and more at our [SET-BC Resource page](#).

As well you can refer to:

- User Guide from HumanWare and other resources [on their website](#).
- Audio tutorial downloads at [Mystic Access](#)
- [BrailleNote Touch Plus Beginners Boot Camp](#). WCBVI Videos, YouTube. 13 part series
- [Brailnote Touch Plus Snapshot Tutorial Videos](#). HumanWare YouTube playlist.
- HumanWare’s HW Buddy app for iOS and Android

Entering Equations in KeyMath and Pasting in KeyWord

Step	Action	Shortcut	More information
1	In Main Menu, Navigate to KeyWord and label your page.	W (Dots 2,4,5,6) >Enter (Dot 8) You will land in Create> Enter	Write student name and date at the top of the page and then enter and braille number 1.
2	Open KeyMath.	Backspace + M (Dots 1,3,4,7)	If not in UEB yet, follow these instructions: Context menu (space + M or long press square context menu button on front edge of BNT+). Go to settings (S until you get to settings). Press Enter. Use the thumb key to navigate to preferred UEB. Press Enter. Press triangular back button to go back to KeyMath.
3	Enter Math equation.		
4	Read current line.	Space + C (Dots 1,4 + Space) (Do not press Enter yet)	The equation you wrote will be read to you. If it doesn't sound correct, you must edit.
5	Show print/ make a visual in KeyMath.	Enter (Dot 8)	You have created a visual (bottom right portion of screen) ready to export. (Trouble shooting: if you can't hear anything, check that the volume is turned on).
6	Export to clipboard.	Backspace + E (Dots 1,5,7)	Automatically opens the Keyword document. Note that the curser will be at the same place you first left. However, if it is not because the device went to sleep, press (Space 4,5,6) to take you to the bottom of the file.
7	Paste from clipboard.	Backspace + V (Dots 1,2,3,6,7)	The Math equation will appear in visual braille, with the  character before and after the equation.
8	Move to new line.	Enter (Dot 8)	
9	Braille next question number.	Eg: 2.	Now the Keyword document is ready for the next question to be pasted.
10	Return to KeyMath.	Backspace + M	

Step	Action	Shortcut	More information
11	Go up to step 3, continue entering equations in KeyMath, check the equation, copy, then paste in KeyWord.		

Tips:

- Each Math question should be completed one at a time (braille the equation in KeyMath, then paste into Word) so that the formatting is accurate on the printed page that is given to the teacher. This also allows the student to find the question with the mistake indicated by the teacher.
- When you copy and paste the question and the visual braille appears incorrect, that means that there is an error in the UEB Math entry. Go back to KeyMath to edit the equation.
- ☒ This symbol shows up surrounding your KeyWord mathematical equations visually. Since the equation is an image, it is displayed on the refreshable display as:
 Dots 1,2,4,6 ims (image start)
 Dots 1,2,4,6 ime (image end)
 For example, ☒123☒ is displayed on the refreshable braille display as:
 \$ims #abc \$ie
- If you need to write words with your math problems, you must enter the words in uncontracted braille.

Create a Visual Preview of KeyWord Document (Optional Printing)

Step	Action	Shortcut	More information
1	In KeyWord, in visual braille view, create visual preview.	Enter + V (Dots 1,2,3,4, 8)	See what the document will look like when printing or sending for someone to look at visually.
2	Exit Preview.	Space + E (Dots 1,5 + space)	
3	Print the document.	Create a visual preview, then use thumb keys to navigate to 'Print,' then press Enter (Dot 8).	BNT+ must be connected to a printer.

Saving Your KeyWord Document for the First Time

Step	Action	Shortcut	More information
1	In a KeyWord Document: Save As	Backspace + S (Dots 2,3,4,7)	
2	Name the document.	Enter name, press Enter	The field will be prepopulated with the words “new document.” You can simply braille the new name you wish to save it with.
3	You will be brought back to the KeyWord document.		


If you can't remember the shortcut for Save As, long-press the square context menu button on the front of the device to enter the Context Menu. You will be brought to File functions – press Enter (dot 8) to explore possible actions. To navigate to Save As, you can enter 'S' twice, or simply use the right thumb key to scroll through all the options.

Re-saving Your KeyWord Document After Making Changes

Step	Action	Shortcut	More information
1	After making changes to your KeyWord document, Save.	Space + S (Dots 1,2,4, + space)	There will be a slight vibration and a voice indicator that you have saved.

Changing Your Answers

If your teacher has looked at the math you submitted and has given feedback that one of your questions is incorrect, you need to make corrections. Press Space +M or hold the square context menu button to bring up a list of available actions.

Step	Action	Shortcut	More information
1	Using the refreshable braille display, place your cursor above the 'image start' character of the question you want to correct.	Press the cursor routing button above the first character of 'image start': \$	Image start character in braille: \$ims Image start character in print:  TTS should say “image start”
2	Change braille into KeyMath.	Press Backspace + M (Dots 1,3,4,7) to change the Math into KeyMath.	You will be placed into KeyMath with your cursor at the beginning of the question.

Step	Action	Shortcut	More information
3	Navigate through your equation to make changes.	(See navigation shortcuts below.)	Do not press enter to make a new line.
4	After making changes, update the visual preview.	Enter + V (Dots 1,2,3,6,8)	The image will show the changes you made, and TTS will read it out.
5	Export new image to clipboard.	Backspace+E (dots 1,4,7)	Cursor is at the start of the old (incorrect) image.
6	Delete what is under your cursor.	Backspace + 3,6	Will delete the whole image, up to 'image end.'
7	Confirm action.	Use thumb keys to navigate to 'yes,' press enter (or use first letter navigation "y" to navigate to "yes").	A window will open, stating "confirm action?" "delete math object?"
8	Paste correction.	Backspace + V (Dots 1,2,3,6,7)	
9	View visual correction/preview.	Enter + V (Dots 1,2,3,6,7)	

Basic Navigation

Position	Braille Command
Top of document	Space + Dots 1,2,3
Bottom of document	Space + Dots 4,5,6
Previous character	Space + Dot 3
Next character	Space + Dot 6
Previous word	Space + Dot 2
Next word	Space + Dot 5
Previous line	Space + Dot 1
Next line	Space + Dot 4
Previous paragraph	Space + Dots 2,3
Next paragraph	Space + Dots 5,6
Beginning of line	Enter + Dots 1,3
End of line	Enter + Dots 4,6

Selecting and Deleting Text

To:	Action
Select a portion of text	1. Place cursor at the beginning of the text you want to select. 2. Enter + S (Dots 2,3,4,8) to enter Selection Mode. 3. Navigate to the end of the text you want to select. 3. Enter + S to finish selection. Dots 7 & 8 on the refreshable braille display will be flashing to show selected text. Make any changes.
Select All	Enter + Dots 1,2,3,4,5,6
Delete text	Use the instructions to Select Text, then press backspace
Delete letter/symbol	Place the cursor after the symbol you want to delete
Delete current character	Backspace + Dots 3,6
Delete previous word	Backspace + Dot 2
Delete current word	Backspace + dots 2,5
Delete remainder of line	Backspace +1,4
Delete remainder of document	Backspace Dots 4,5,6 deletes text from your cursor to the end of the document. There will be a pop-up window asking to confirm delete.
Delete entire document	Do this by entering KeyFile in the Main Menu>Backspace+2,3,5,6>navigate to 'OK'
Undo	Does not exist in KeyWord

Using the UEB Symbol List

If you want to enter a math symbol but you don't know the braille character, use the symbol list.

Step	Action	Shortcut	More information
1	When in KeyMath, enter the Symbols List.	Backspace 'in' (Dots 3,5,7)	
2	Navigate through the categories.	Use the thumb keys and listen for the correct category. Press Enter (Dot 8) when you find it. Eg. Greek Letters (Instead of scrolling through the menu with the thumb keys, you can sue first letter navigation if you know the categories.)	Categories are: <ul style="list-style-type: none"> • Letters and numbers • Numbers, coinage and measurement symbols • Operation and comparison signs • Fractions, roots, superscripts and subscripts • Miscellaneous mathematical symbols • Spatial arrangement symbols • Greek letters • Set theory and logic symbols • Shape symbols • Matrix and vestor symbols • Arrow symbols • Symbols for Chemistry and engineering • Accents • Punctuation symbols • Other symbols • Type forms
3	Find the symbol you need.	Use either the thumb keys to scroll through the list, or first letter navigation. Eg. 'p'>enter until you get to 'pi'>enter	The symbol will be placed in KeyMath, and you will be brought back to KeyMath, with the cursor directly after the symbol you inserted. Read the symbol on the refreshable braille display to learn the correct dots. The next time you may simply enter the correct dots if you remember them.
4	Continue writing your math equation.		

Step	Action	Shortcut	More information
5	Make a visual in KeyMath of the current line of braille.	Enter (Dot 8)	

The Symbol Selector tool is not a replacement for teaching braille symbols. It is meant to be used when you cannot remember a symbol and can help you remember it for the future.