

# Nemeth Code Reference Sheet for Basic Mathematics

## Numbers

*Number indicator (or sign)	⠠	1	⠠	2	⠠	3	⠠	4	⠠	5
, Mathematical comma	⠠	6	⠠	7	'	8	⠠	9	⠠	0
. Decimal point	⠠	10	⠠	1,000	⠠	⠠	⠠	⠠	⠠	⠠
- Negative number	⠠	.5	⠠	-3	⠠	⠠	⠠	⠠	⠠	⠠

## Omissions

? General omission symbol	⠠	1 2 ? 4	⠠	⠠	⠠	⠠
— Dash or long dash	⠠	2 tens = —	(See also <i>Equal to</i> below.)	⠠	⠠	⠠

## Comparisons

= Equal to	⠠	7 = ?	⠠	⠠	⠠
> Greater than	⠠	7 > 4	⠠	⠠	⠠
< Less than	⠠	7 < 8	⠠	⠠	⠠

## Operations

+ Addition	⠠	5 + 3 = 8	⠠	⠠	⠠
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\*Carried number indicator ⠠

— Separation line (or vertical equal sign) ⠠

1	⠠
25	⠠
+ 7	⠠
32	⠠



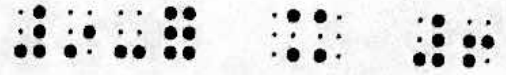
AMERICAN PRINTING HOUSE  
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\*Unique to braille

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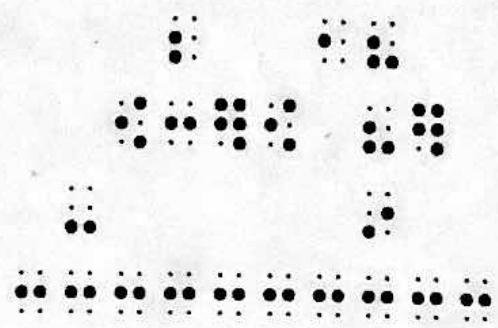
- Subtraction

9 - ? = 6



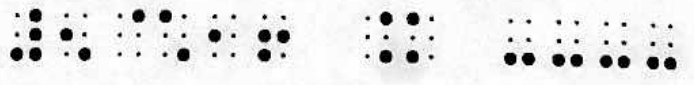
\*Cancellation indicators (opening and closing)

$\frac{218}{\cancel{X}8} - 9$



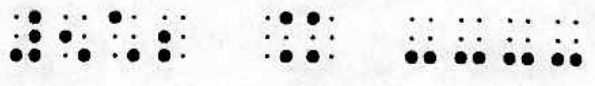
× Multiplication cross

5 × 16 = \_\_\_

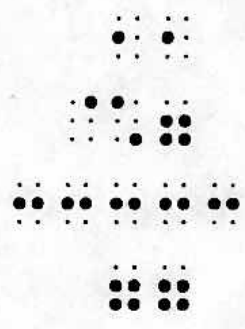


• Multiplication dot

5 • 2 = \_\_\_

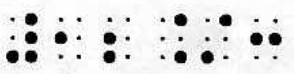


$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$



÷ Division

12 ÷ 3



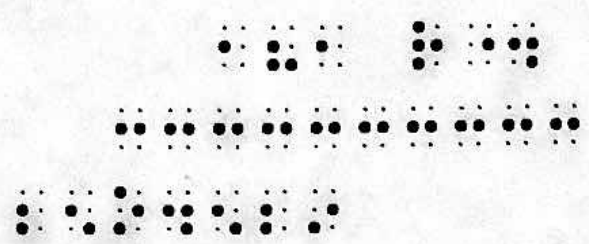
) Division   
(When answer is not given, separation line is omitted and number indicator is shown.)

5)1.00



r Remainder sign

$\begin{array}{r} 181 \text{ r}4 \\ 25 \overline{)4529} \end{array}$





# Components of Modified Expressions in Order of Appearance

I. \*Multipurpose indicator  $\cdot\cdot$  (for separating numbers and letters, tally marks and punctuation indicators, etc.) (See example for *Line segment AB* to the right of *Termination indicator*. This includes all five Components of Modified Expressions.)

II. Expression including letters or numbers being modified

III. Position indicator

\*Directly-over  $\cdot\cdot$

\*Directly-under  $\cdot\cdot$

IV. Common modifiers

→ Right arrow, uncontracted  $\cdot\cdot\cdot\cdot$

← Left arrow (never contracted)  $\cdot\cdot\cdot\cdot$

→ Right arrow, contracted  $\cdot\cdot$

↔ Two-way arrow  $\cdot\cdot\cdot\cdot$

— Horizontal bar  $\cdot\cdot$

V. \*Termination indicator  $\cdot\cdot$

$\overline{AB}$  Line segment AB  $\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

## Miscellaneous

° Degree  $\cdot\cdot\cdot\cdot$

90° (See also *Superscript* below.)  $\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

() Parentheses  $\cdot\cdot\cdot\cdot$

(1 + 2) + 3 = 6  $\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

% Percent  $\cdot\cdot\cdot\cdot$

95%  $\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

:: Proportion  $\cdot\cdot\cdot\cdot$

1:2 :: 2:4 (See also *Ratio* below.)

$\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

\*Punctuation indicator  $\cdot\cdot$

1. Find 6.  $\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

√ Radical (square root)  $\cdot\cdot$

√64  $\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

: Ratio  $\cdot\cdot\cdot\cdot$

5:10  $\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

\*Superscript indicator  $\cdot\cdot$

4<sup>2</sup>  $\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

| Tally mark  $\cdot\cdot$

∞ |  $\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot$

\*Unique to braille

## References

AAWB-AEVH-NBA Advisory Council to the Braille Authority. (1981). *The Nemeth braille code for mathematics and science notation 1972 revision*. Louisville, KY: American Printing House for the Blind.  
 Craig, R.H. (1987). *Learning the Nemeth braille code: A manual for teachers and students*. Louisville, KY: American Printing House for the Blind.