Teaching and Learning of the Nemeth Braille Code

- Punctuation Indicator
- Long Dash and Ellipsis
- Numeric Indicator and Punctuation
- Frequency Distributions
Roman Numerals (p. 26)

- Treat as all caps
- Use 2 uppercase indicators before the letters
- Example
  - MMXI
<table>
<thead>
<tr>
<th>Nemeth</th>
<th>Literary</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ⋅</td>
<td>comma</td>
</tr>
<tr>
<td>2 ⋊</td>
<td>semicolon</td>
</tr>
<tr>
<td>3 ⋊</td>
<td>colon</td>
</tr>
<tr>
<td>4 ⋊</td>
<td>period</td>
</tr>
<tr>
<td>6 ⋊</td>
<td>exclamation point</td>
</tr>
<tr>
<td>8 ⋊</td>
<td>question mark</td>
</tr>
<tr>
<td>Nemeth</td>
<td>Literary</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Minus ::</td>
<td>dash, hyphen</td>
</tr>
<tr>
<td>8 :: 0 ::</td>
<td>open &amp; closed quote</td>
</tr>
<tr>
<td>comma (dot 6)</td>
<td>capital letter</td>
</tr>
<tr>
<td>dot 3</td>
<td>apostrophe</td>
</tr>
</tbody>
</table>
Punctuation Indicator (p. 26-28)

- Dots 4-5-6 :: Abbreviated PI
- Needed before a literary mark of punctuation that follows a mathematical term or indicator including:
  - Fraction indicators
  - Nemeth numerals, including Roman numerals
  - Dashes or Ellipses
  - Algebraic expression with letters
  - Plural, possessive, or ordinal endings on numbers like ‘s, st, nd, th (Note: Don’t use contractions here)
  - Abbreviated function names like sin, cos, tan, ln, log
Non-Use of the PI (p. 29-30)

- Not needed
  - Beginning of a braille line or after a space
  - After any English braille numeral
  - After a dash or ellipsis that replaces a word
  - After a word or abbreviation
  - Before a comma, hyphen, dash, or ellipsis
Spacing with Long Dash and Ellipsis (p. 31)

- Long Dash ·······
  - Used as a fill in the blank for math problems
  - Use 4 hyphens (dots 3-6) in a row

- Ellipsis
  - Use 3 apostrophes (dot 3) in a row

- Both
  - Use a space before and after except next to punctuation other than hyphen or other symbols that apply to it
Examples

- Pi is equal to 3.14.
- \( \pi \) is equal to 3.14.
- 5 + 7 = \_
- Continue the pattern 1, 1, 2, 3, 5, ...
The Numeric Indicator must be used before a numeric symbol that follows a mark of punctuation such as hyphens and colons.

Exception – hyphen used in a mathematical expression such as a span of time.
Example

- 3:30-4:30
- The boy said, “8-2=6”.
- Why the necessity for a punctuation indicator?
Use the PI (dots 4-5-6) for each tally mark

Put in groups of 5

Leave a space between the groups of 5
Example

Dogs
Cats
Birds
Assignment

- p.28, #1-7
- p.30, #1-7
- p.31, #1-4
- p.32, #1-19
- Do a frequency distribution of the ages of your students.