Teaching and Learning of the Nemeth Braille Code

- Signs and Symbols of Comparison
- Miscellaneous Signs and Symbols
Signs and Symbols of Comparison

Space Before and After

- Equal to =
- Less than <
- Less than or equal to ≤
- Greater than >
- Greater than or equal to ≥
Examples

- $ab \geq cd$
- $ab = cd$
- If $a < 0$, then $|a| = -a$
- $x \geq y$
Negation

Space Before and After

- Not equal to \( \neq \)
- Not less than \( \not< \)
- Not greater than \( \not> \)
Examples

\[
\frac{3}{5} \neq \frac{12}{15}
\]

\[
\frac{5}{15} = \frac{1}{3}
\]

\[
x \neq 4
\]
Other Comparisons

Space Before and After

- Approximately equal to $\approx$
- Similar to $\sim$
- Identically equal to $\equiv$
- Congruent to $\cong$
- Ratio $:\div:$
- Proportion $::$
Examples

1 ft \approx \frac{1}{3} \text{ m}

4 \equiv 29 \pmod{5}

\text{angle } ABC \cong \text{angle } DEF

5 : 6 :: 15 : ?
<table>
<thead>
<tr>
<th>Sign</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cents</td>
<td>¢</td>
</tr>
<tr>
<td>Dollars</td>
<td>$</td>
</tr>
<tr>
<td>At (space on each side)</td>
<td>@</td>
</tr>
<tr>
<td>Percent</td>
<td>%</td>
</tr>
<tr>
<td>Prime</td>
<td>’</td>
</tr>
<tr>
<td>Double Prime</td>
<td>”</td>
</tr>
</tbody>
</table>
Examples

- 24¢
- $37.59
- 5 bags @ 86¢
- 12%
- y'
- 6'4"
More Miscellaneous Signs and Symbols

- Since
- Therefore
- Number sign, pounds
- Slash for “per”
- Tally Mark
- Ditto Mark
Added Note for Tally Marks

The Multipurpose Indicator, dot 5, must be used between a tally mark and the PI.

Why?
Examples

- 55 mi/hr

- He needs 2# of hamburger.

- \[-2x + 1 > 7 \Rightarrow x < -3\]

- Here is a tally for the cars: ||||.
Added Notes for Ditto Marks

- A space is left on each side of the ditto mark.
- The symbol is centered under the word or numerals, etc. to be duplicated.
- This may necessitate altering the normal spacing in the line above the ditto marks.
Example of the Ditto Mark

- 500 + 100 = 600
- 600 " " " 700
- 700 " " " 800
Additional Rules

- The contractions for to ☼, into ☼☼, and by ☼ may not be used before any of these miscellaneous symbols

- The PI must be used before punctuation that follows any of these miscellaneous symbols
Assignment

- p. 61 all
- p. 64 all