Assignment 1

For this assignment, braille the worksheets for a student in the middle grades. If you are using a braille translation program, we ask that you use 6 key entry.

If you are a braille reader, please note that the assignment is only available as a PDF because this is what happens in schools every day!

Once you have completed the assignment, use the Answer Key to check your accuracy. If you have errors, review the lesson(s) in which the material was covered to ensure you understand your errors.

CAUTION: Use the opening Nemeth Code indicator and the Nemeth Code terminator everywhere needed in each worksheet!!
Review for Unit 5 Test

Simplify the following expressions.
1. \(7 \times 9 \div 3 + (5 - 4)^3\)
2. \(\left[(12 - 4) + (6 \div 2)^2\right] + 8\)
3. \(39 + (20^2 - 14) \div 2\)

Graph the following inequalities on a number line.
4. \(x \leq 4\)
5. \(x \geq -6\)
6. \(x \neq |-13|\)
7. \(x \geq \sqrt{144} - |-8|\)

Graph the following points on a coordinate plane.
8. \((-6, 2)\)
9. \((5, -4)\)
10. \((-7, 0)\)

Write the inequality for each graph.
11. [Diagram of a number line with points at -1, 0, 1, 2, 3, 4, 5 marked.]
12. [Diagram of a number line with points at -100, 0, 300, 500 marked.]

Solve the following word problem. Don’t forget to show your work!
13. If \(\pi \approx 3.14\) and \(A = \pi r^2\), what is the area of a circle with a diameter of 6 inches?
14. To find the area of a trapezoid with bases $b_1$ and $b_2$, which formula would you use?

Find the linear equation that represents the relationship of the $x$ and $y$-values in each of the following tables.

<table>
<thead>
<tr>
<th>$x$</th>
<th>$y$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\frac{1}{2}$</td>
<td>4</td>
</tr>
<tr>
<td>$\frac{1}{4}$</td>
<td>2</td>
</tr>
<tr>
<td>$\frac{1}{8}$</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>$x$</th>
<th>$y$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$-3$</td>
<td>0</td>
</tr>
<tr>
<td>$-2$</td>
<td>$-5$</td>
</tr>
<tr>
<td>$-1$</td>
<td>$-10$</td>
</tr>
</tbody>
</table>