Number Lines Lesson 4
Compound Inequalities
Graphing Activity

Graph each compound inequality on a new number line. Number your answers and include the original problem. [There is a braille answer document "L4-NL-Activity-A-Answers.brf" that can be used to independently check answers.]

1. Negative 3 is less than x is less than 2.

   $-3 < x < 2$

   ⠼⠤⠉⠀⠻⠀⠭⠀⠻⠀⠼⠃

2. Negative 3 is less than or equal to x is less than or equal to 2.

   $-3 \leq x \leq 2$

   ⠼⠤⠉⠀⠸⠻⠀⠭⠀⠸⠻⠀⠼⠃

3. Negative 2 is less than x is less than or equal to 3.

   $-2 < x \leq 3$

   ⠼⠤⠃⠀⠻⠀⠭⠀⠸⠻⠀⠼⠉

4. Negative 2 is less than or equal to x is less than 3.

   $-2 \leq x < 3$

   ⠼⠤⠃⠀⠸⠻⠀⠭⠀⠻⠀⠼⠉

5. x is less than negative 2 or x is greater than or equal to 1.

   $x < -2$ or $x \geq 1$

   ⠭⠀⠻⠀⠤⠀⠼⠃⠀⠕⠗⠀⠭⠀⠸⠕⠀⠼⠁

6. x is less than or equal to negative 1 or x is greater than 2.

   $x \leq -1$ or $x > 2$