

Number Lines Lesson 3

Graphing Inequalities

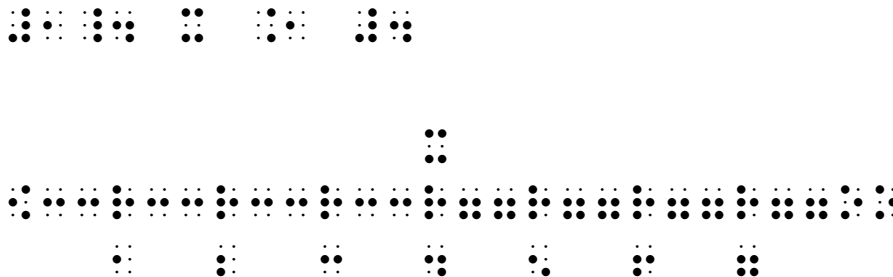
Greater Than Graphing Activity Answer Key

Graph each inequality on a new number line. Number your answers and include the original problem. Notice that they all involve the symbol for greater than ($>$) or the symbol for greater than or equal to (\geq). Therefore, you will need to end each number line with two right-pointing arrowheads (or a bold right-pointing arrowhead). [There is a braille answer document "L3-NL-GT-Activity-A-Answers.brf" that can be used to independently check answers.]

1. x is greater than 4.

$$x > 4$$

Answer:



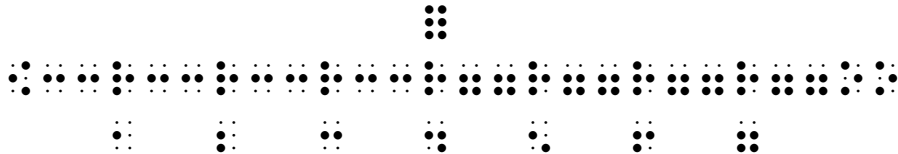
A braille number line is shown. The scale marks are in increments of 1 starting with 1 and ending with 7, and an additional right-pointing arrowhead is added. An open circle is placed above the scale mark at 4 and shading goes from just to the right of 4 to just to the left of the 1st right-pointing arrowhead.

2. x is greater than or equal to 4.

$$x \geq 4$$

Answer:

⠠⠭ ⠠⠭ ⠠⠇ ⠠⠼ ⠠⠴



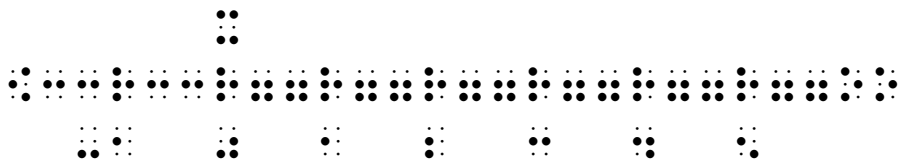
A braille number line is shown. The scale marks are in increments of 1 starting with 1 and ending with 7, and an additional right-pointing arrowhead is added. A closed circle is placed above the scale mark at 4 and shading goes from just to the right of 4 to just to the left of the 1st right-pointing arrowhead.

3. x is greater than 0.

$$x > 0$$

Answer:

⠠⠭ ⠠⠭ ⠠⠇ ⠠⠼ ⠠⠴

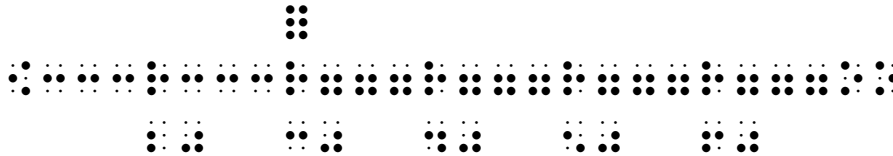
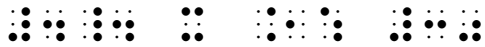


A braille number line is shown. The scale marks are in increments of 1 starting with -1 and ending with 5, and an additional right-pointing arrowhead is added. An open circle is placed above the scale mark at 0 and shading goes from just to the right of 0 to just to the left of the 1st right-pointing arrowhead.

4. x is greater than or equal to 30.

$$x \geq 30$$

Answer:

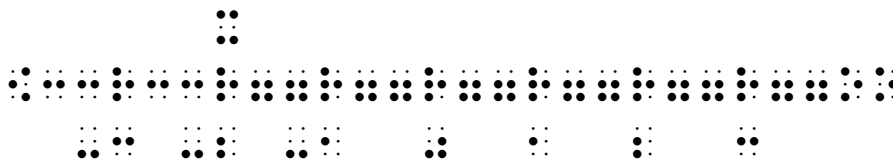
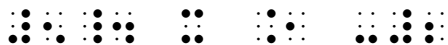


A braille number line is shown. The scale marks are in increments of 10 starting with 20 and ending with 60, and an additional right-pointing arrowhead is added. A closed circle is placed above the scale mark at 30 and shading goes from just to the right of 30 to just to the left of the 1st right-pointing arrowhead.

5. x is greater than negative 2.

$x > -2$

Answer:

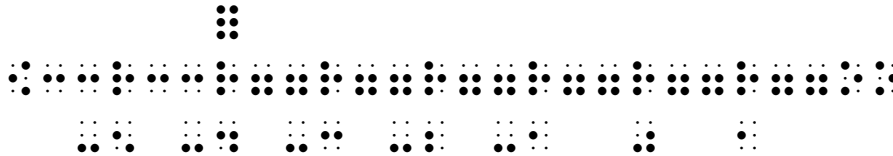
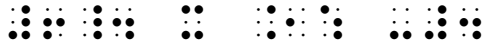


A braille number line is shown. The scale marks are in increments of 1 starting with -3 and ending with 3, and an additional right-pointing arrowhead is added. An open circle is placed above the scale mark at -2 and shading goes from just to the right of -2 to just to the left of the 1st right-pointing arrowhead.

6. x is greater than or equal to negative 4.

$$x \geq -4$$

Answer:



A braille number line is shown. The scale marks are in increments of 1 starting with -5 and ending with 1, and an additional right-pointing arrowhead is added. A closed circle is placed above the scale mark at -4 and shading goes from just to the right of -4 to just to the left of the 1st right-pointing arrowhead.