

Number Lines Lesson 4

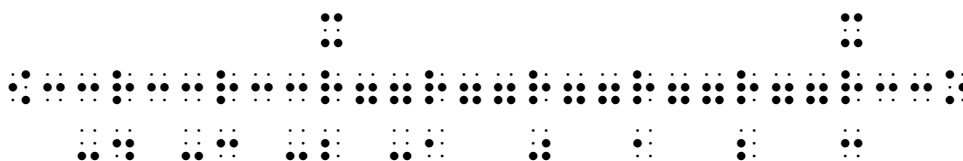
Compound Inequalities

Interpreting Activity Answer Key

Emboss the "L4-NL-Activity-B.brf" file. Insert these sheets into your braillewriter and label the inequality graphed on each number line just to the right of the problem number. [There is a braille answer document "L4-NL-Activity-B-Answers.brf" that can be used to independently check answers.]

1. A braille number line is shown. The scale marks are in increments of 1 starting with -4 and ending with 3. An open circle is placed above the scale marks at -2 and 3. Shading goes from just to the right of -2 to just to the left of 3.

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Answer:

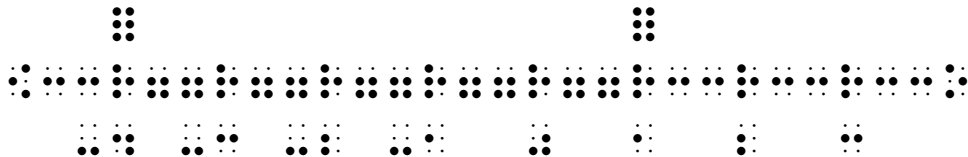
1. Negative 2 is less than x is less than 3.

$$-2 < x < 3$$

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2. A braille number line is shown. The scale marks are in increments of 1 starting with -4 and ending with 3. A closed circle is placed above the scale marks at -4 and 1. Shading goes from just to the right of -4 to just to the left of 1.

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Answer:

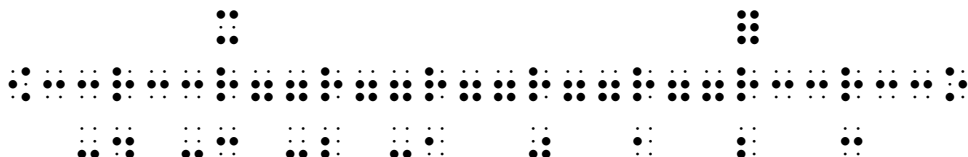
2. Negative 4 is less than or equal to x is less than or equal to 1.

$$-4 \leq x \leq 1$$

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3. A braille number line is shown. The scale marks are in increments of 1 starting with -4 and ending with 3. An open circle is placed above the scale mark at -3 and a closed circle is placed above the scale mark at 2. Shading goes from just to the right of -3 to just to the left of 2.

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Answer:

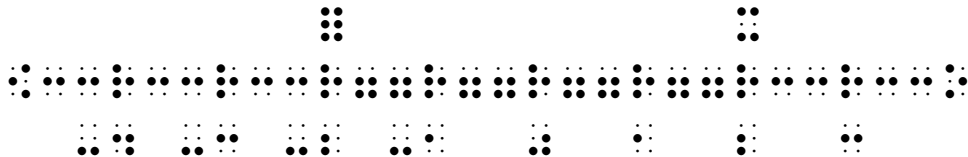
3. Negative 3 is less than x is less than or equal to 2.

$$-3 < x \leq 2$$

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4. A braille number line is shown. The scale marks are in increments of 1 starting with -4 and ending with 3. A closed circle is placed above the scale mark at -2 and an open circle is placed above the scale mark at 2. Shading goes from just to the right of -2 to just to the left of 2.

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Answer:

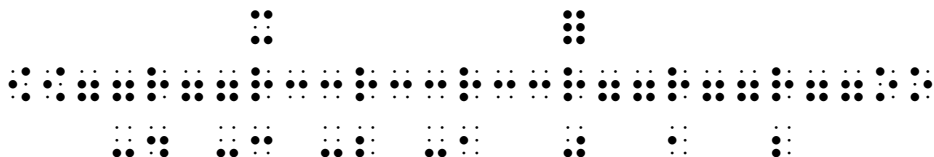
4. Negative 2 is less than or equal to x is less than 2.

$$-2 \leq x < 2$$

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5. A braille number line is shown. The scale marks are in increments of 1 starting with -4 and ending with 2. An open circle is placed above the scale mark at -3 and a closed circle is placed above the scale mark at 0. An additional left-pointing arrowhead and an additional right-pointing arrowhead are added. Shading goes left of -3 and right of 0 not including the arrowheads.

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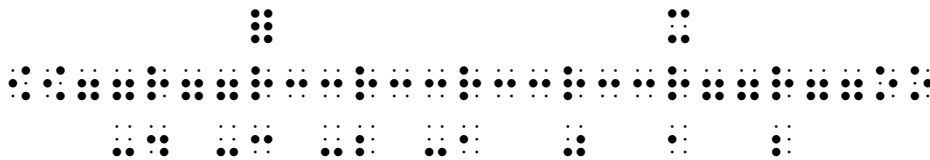
Answer:

5. x is less than negative 3 or x is greater than or equal to 0.

$$x < -3 \text{ or } x \geq 0$$

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6. A braille number line is shown. The scale marks are in increments of 1 starting with -4 and ending with 2. A closed circle is placed above the scale mark at -3 and an open circle is placed above the scale mark at 1. An additional left-pointing arrowhead and an additional right-pointing arrowhead are added. Shading goes left of -3 and right of 1 not including the arrowheads.



Answer:

6. x is less than or equal to negative 3 or x is greater than 1.

$$x \leq -3 \text{ or } x > 1$$

