

Number Lines Lesson 4

Compound Inequalities

Matching Game Answer Key

Teacher Note

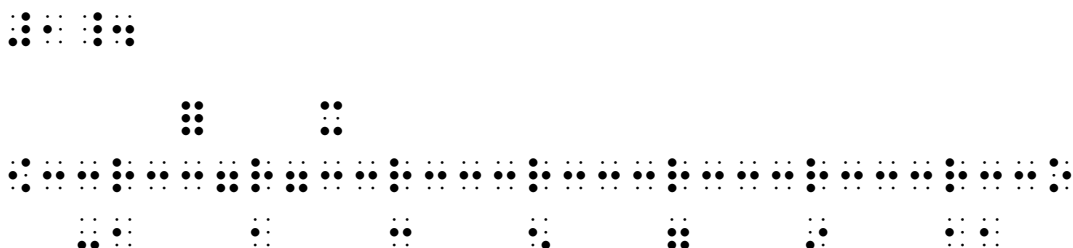
We have provided the answer for each problem in print for you, but the student only needs to write the letters.

Rules

Match the inequalities below to each of the inequalities graphed on the remaining pages to make a word. Braille the letter that goes with the answer to each problem. Letters may be used more than once. Don't use the grade 1 symbol indicator when writing the answer since you will be creating a word in uncontracted braille.

Game and Answers

1. A braille number line is shown. The scale marks are in increments of 2 starting with -1 and ending with 11. A closed circle is placed above the number line halfway between the scale marks at -1 and 1 and an open circle is placed above the number line halfway between the scale marks at 1 and 3. Shading goes from just to the right of 0 to just to the left of 2.



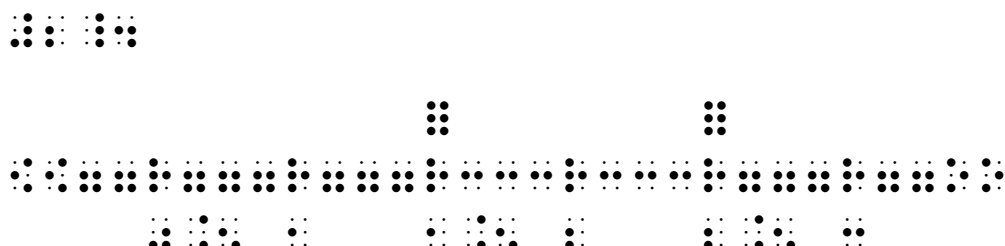
Answer: s

0 is less than or equal to x is less than 2.

$$0 \leq x < 2$$

0 is less than or equal to x is less than 2

2. A braille number line is shown. The scale marks are in increments of 0.5 starting with 0.5 and ending with 3. A closed circle is placed above the scale marks at 1.5 and 2.5. An additional left-pointing arrowhead and an additional right-pointing arrowhead are added. Shading goes left of 1.5 and right of 2.5 not including the arrowheads.



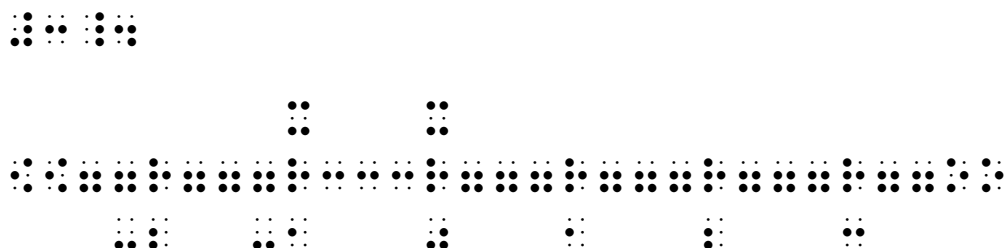
Answer: u

x is less than or equal to 1.5 or x is greater than or equal to 2.5.

$$x \leq 1.5 \text{ or } x \geq 2.5$$

Braille representation of the inequality: $x \leq 1.5 \text{ or } x \geq 2.5$

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



Answer: c

x is less than negative 1 or x is greater than 0.

$$x < -1 \text{ or } x > 0$$

Braille representation of the inequality: $x < -1 \text{ or } x > 0$

4. A braille number line is shown. The scale marks are in increments of 1 starting with negative three-halves and ending with one-half. An open circle is placed above the number line halfway between the scale marks at negative three-halves and negative one-half and halfway between the scale marks at negative one-half and one-half. An additional left-pointing arrowhead and an additional right-pointing arrowhead are added. Shading goes left of -1 and right of 0 not including the arrowheads.



Answer: c

x is less than negative 1 or x is greater than 0.

$$x < -1 \text{ or } x > 0$$



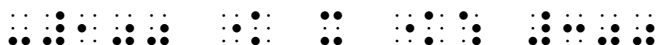
5. A braille number line is shown. The scale marks are in increments of 100 starting with -100 and ending with 400. An open circle is placed above the scale mark at -100 and a closed circle is placed above the scale mark at 300. Shading goes from just to the right of -100 to just to the left of 300.



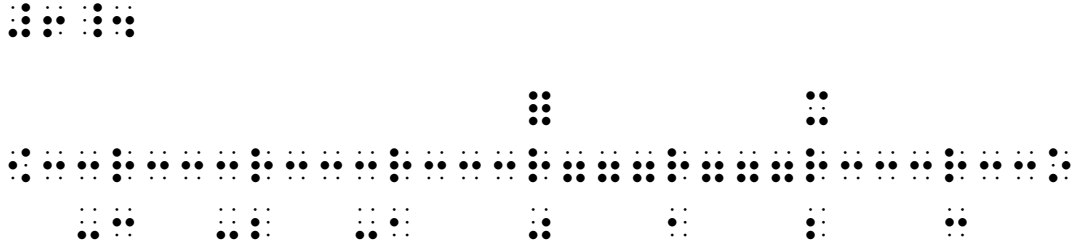
Answer: e

Negative 100 is less than x is less than or equal to 300.

$$-100 < x \leq 300$$



6. A braille number line is shown. The scale marks are in increments of 1 starting with -3 and ending with 3. A closed circle is placed above the scale mark at 0 and an open circle is placed above the scale mark at 2. Shading goes from just to the right of 0 to just to the left of 2.



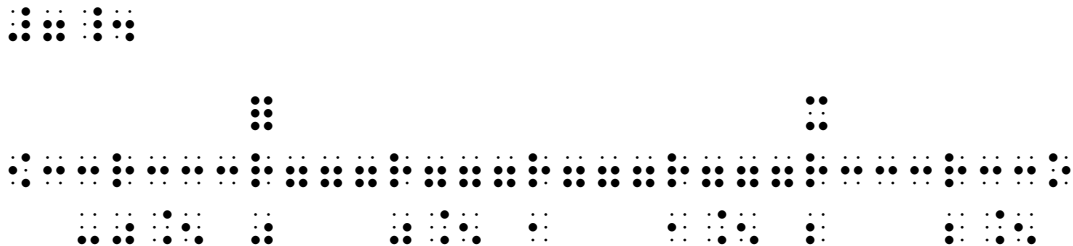
Answer: s

0 is less than or equal to x is less than 2.

$$0 \leq x < 2$$

Braille representation of the inequality: $0 \leq x < 2$

7. A braille number line is shown. The scale marks are in increments of 0.5 starting with -0.5 and ending with 2.5. A closed circle is placed above the scale mark at 0 and an open circle is placed above the scale mark at 2. Shading goes from just to the right of 0 to just to the left of 2.



Answer: s

0 is less than or equal to x is less than 2.

$$0 \leq x < 2$$

Braille representation of the inequality: $0 \leq x < 2$

Student Answer: success