

Writing and graphing inequalities

NAME	DATE	SCORE / 10
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Write or draw each inequality.

- 1** A child under 9 years old gets in free. Let a be the age, in years, of a child who gets in free. Write an inequality that shows this.

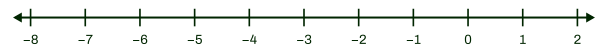
- 2** A bag can hold no more than 45 kilograms. Let w be the weight in the bag, in kilograms. Write an inequality that shows this.

- 3** A soccer team needs at least 14 players. Let p be the number of players. Write an inequality that shows this.

- 4** A child under 7 years old gets in free. Let a be the age, in years, of a child who gets in free. Write an inequality that shows this.

- 5** The temperature stayed above 10 degrees all day. Let t be the temperature in degrees. Write an inequality that shows this.

- 6** Draw the solutions of $-3 \geq x$ on the number line below.



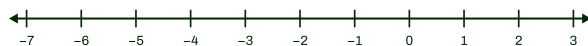
- 7** Draw the solutions of $x < 3$ on the number line below.



- 8** Draw the solutions of " x is less than 4" on the number line below.



- 9** Draw the solutions of $x \leq -2$ on the number line below.



- 10** Draw the solutions of $x \geq 4$ on the number line below.



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1 $a < 9$

4 $a < 7$

2 $w \leq 45$

5 $t > 10$

3 $p \geq 14$



A filled (closed) circle at -3 , and the line shaded, or an arrow drawn, from it to the left end. An open circle, or the shading to the right, does not count.



An open circle at 3 , and the line shaded, or an arrow drawn, from it to the left end. A filled circle, or the shading to the right, does not count.



An open circle at 4 , and the line shaded, or an arrow drawn, from it to the left end. A filled circle, or the shading to the right, does not count.



A filled (closed) circle at -2 , and the line shaded, or an arrow drawn, from it to the left end. An open circle, or the shading to the right, does not count.



A filled (closed) circle at 4 , and the line shaded, or an arrow drawn, from it to the right end. An open circle, or the shading to the left, does not count.