

"I Can Write an Inequality and Determine the Possible Solutions that Satisfy the Situation."

## An Introduction to Writing Inequalities

List three numbers that would be in the solution set inequalities below.

<b><math>x</math> is greater than 14</b> $x > 14$	<b><math>x</math> is less than 8</b> $x < 8$	<b><math>x</math> is greater than or equal to 50</b> $x \geq 50$	<b><math>x</math> is less than or equal to 1</b> $x \leq 1$
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<b>Key Words</b> Is Greater Than Is More Than Is Larger Than Exceeds	<b>Key Words</b> Is Less Than Is Smaller Than Is Below	<b>Key Words</b> Is Greater Than or Equal To At Least No Less Than	<b>Key Words</b> Is Less Than or Equal To To At Most No More Than
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Look at the situations below. Circle the numbers that are possible answers in each situation. Then write an inequality for each situation.

1. Jessica spent less than \$5 at the arcade.

1    2    3    4    5    6    7    8    9    10    11    12    13    14    15

Inequality: \_\_\_\_\_

2. Sherry must get at least 8 points to win the game.

1    2    3    4    5    6    7    8    9    10    11    12    13    14    15

Inequality: \_\_\_\_\_

3. You must be older than 10 to play in the basketball game.

1    2    3    4    5    6    7    8    9    10    11    12    13    14    15

Inequality: \_\_\_\_\_

4. Billy's mom told him to spend no more than 12 minutes playing video games.

1    2    3    4    5    6    7    8    9    10    11    12    13    14    15

Inequality: \_\_\_\_\_

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## An Introduction to Writing Inequalities

List three numbers that would be in the solution set inequalities below.

<b><math>x</math> is greater than 14</b> $x > 14$ $x = \{17, 20, 25\}$	<b><math>x</math> is less than 8</b> $x < 8$ $x = \{0, 4, 7\}$	<b><math>x</math> is greater than or equal to 50</b> $x \geq 50$ $x = \{55, 100, 150\}$	<b><math>x</math> is less than or equal to 1</b> $x \leq 1$ $x = \{0, -5, -7\}$
<b>Key Words</b> Is Greater Than Is More Than Is Larger Than Exceeds	<b>Key Words</b> Is Less Than Is Smaller Than Is Below	<b>Key Words</b> Is Greater Than or Equal To *At Least* *No Less Than*	<b>Key Words</b> Is Less Than or Equal To *At Most* *No More Than*

Look at the situations below. Circle the numbers that are possible answers in each situation. Then write an inequality for each situation.

1. Jessica spent less than \$5 at the arcade.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Inequality:  $d < 5$

2. Sherry must get at least 8 points to win the game.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Inequality:  $p \geq 8$

3. You must be older than 10 to play in the basketball game.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Inequality:  $b > 10$

4. Billy's mom told him to spend no more than 12 minutes playing video games.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Inequality:  $m \leq 12$