

## Lesson 17: Solving Compound Inequalities

**Directions:** Solve each compound inequality and use a pencil to **DRAW** the object that corresponds with your answer. **SHOW YOUR STEPS!!!**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                       |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
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| <p><b>1.</b> <math>4 \leq x + 2 \leq 7</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>2 \leq x \leq 5</math> draw the following ears.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>6 \leq x \leq 9</math> draw the following ears.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>                                | (a) If your answer is $2 \leq x \leq 5$ draw the following ears.                      |    | (b) If your answer is $6 \leq x \leq 9$ draw the following ears.            |    | <p><b>2.</b> <math>x + 6 &gt; 4</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x &gt; 10</math> draw the following snorkel mask.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x &gt; 2</math> draw the following snorkel mask.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>                                                                                                | (a) If your answer is $x > 10$ draw the following snorkel mask.                     |    | (b) If your answer is $x > 2$ draw the following snorkel mask.              |    | <p><b>3.</b> <math>x + 6 \leq 10</math> or <math>x - 2 \geq 3</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x \leq 5</math> or <math>x \geq 4</math> draw the following eyes inside the mask.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x \leq 4</math> or <math>x \geq 5</math> draw the following eyes inside the mask.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table> | (a) If your answer is $x \leq 5$ or $x \geq 4$ draw the following eyes inside the mask. |    | (b) If your answer is $x \leq 4$ or $x \geq 5$ draw the following eyes inside the mask. |    |
| (a) If your answer is $2 \leq x \leq 5$ draw the following ears.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (b) If your answer is $6 \leq x \leq 9$ draw the following ears.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (a) If your answer is $x > 10$ draw the following snorkel mask.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (b) If your answer is $x > 2$ draw the following snorkel mask.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
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| (b) If your answer is $x \leq 4$ or $x \geq 5$ draw the following eyes inside the mask.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| <p><b>4.</b> <math>-3 \geq -3x \geq -9</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>-6 \leq x \leq 0</math> draw the following eyebrows.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>1 \leq x \leq 3</math> draw the following eyebrows.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>                       | (a) If your answer is $-6 \leq x \leq 0$ draw the following eyebrows.                 |    | (b) If your answer is $1 \leq x \leq 3$ draw the following eyebrows.        |    | <p><b>5.</b> <math>5x \leq -15</math> or <math>2x \geq 6</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x \leq 3</math> or <math>x \geq -3</math> draw the following snorkel.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x \leq -3</math> or <math>x \geq 3</math> draw the following snorkel.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>                              | (a) If your answer is $x \leq 3$ or $x \geq -3$ draw the following snorkel.         |    | (b) If your answer is $x \leq -3$ or $x \geq 3$ draw the following snorkel. |    | <p><b>6.</b> <math>-15 &lt; x - 7</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>-8 &lt; x</math> draw TWO bubbles coming out of the snorkel.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>-8 &gt; x</math> draw LOTS of bubbles coming out of the snorkel.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>                                                                   | (a) If your answer is $-8 < x$ draw TWO bubbles coming out of the snorkel.              |    | (b) If your answer is $-8 > x$ draw LOTS of bubbles coming out of the snorkel.          |    |
| (a) If your answer is $-6 \leq x \leq 0$ draw the following eyebrows.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (b) If your answer is $1 \leq x \leq 3$ draw the following eyebrows.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
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| (b) If your answer is $x \leq -3$ or $x \geq 3$ draw the following snorkel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
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| (b) If your answer is $-8 > x$ draw LOTS of bubbles coming out of the snorkel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| <p><b>7.</b> <math> x + 6  = 5</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = -1, -11</math> draw the following hair.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = -1</math> draw the following hair.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>                                                    | (a) If your answer is $x = -1, -11$ draw the following hair.                          |    | (b) If your answer is $x = -1$ draw the following hair.                     |   | <p><b>8.</b> <math>5 &lt; x - 1 &lt; 7</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>6 &lt; x &lt; 8</math> draw seaweed in the background.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>4 &lt; x &lt; 6</math> draw coral in the background.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>                                                                               | (a) If your answer is $6 < x < 8$ draw seaweed in the background.                   |    | (b) If your answer is $4 < x < 6$ draw coral in the background.             |   | <p><b>9.</b> <math>-2 &lt; 1 - x &lt; 5</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>-3 &lt; x &lt; 4</math> draw an octopus in the background.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>-4 &lt; x &lt; 3</math> draw a jellyfish in the background.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>                                                                   | (a) If your answer is $-3 < x < 4$ draw an octopus in the background.                   |    | (b) If your answer is $-4 < x < 3$ draw a jellyfish in the background.                  |   |
| (a) If your answer is $x = -1, -11$ draw the following hair.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (b) If your answer is $x = -1$ draw the following hair.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
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| (b) If your answer is $4 < x < 6$ draw coral in the background.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
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| (b) If your answer is $-4 < x < 3$ draw a jellyfish in the background.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| <p><b>10.</b> <math>-2 \geq -2x - 4 \geq -6</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>-2 \leq x \leq 2</math> draw a seashell in the background.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>-1 \leq x \leq 1</math> draw a starfish in the background.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table> | (a) If your answer is $-2 \leq x \leq 2$ draw a seashell in the background.           |  | (b) If your answer is $-1 \leq x \leq 1$ draw a starfish in the background. |  | <p><b>11.</b> <math>-9x &lt; 18</math> or <math>x + 5 &lt; -2</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x &lt; -7</math> or <math>x &gt; -2</math> draw a school of fish in the background.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x &lt; -9</math> or <math>x &gt; -7</math> draw TWO fish in the background.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table> | (a) If your answer is $x < -7$ or $x > -2$ draw a school of fish in the background. |  | (b) If your answer is $x < -9$ or $x > -7$ draw TWO fish in the background. |  | <p><b>12.</b> <math> 3x - 2  = 4</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 2px;">(a) If your answer is <math>x = 2, -2</math> draw a whale in the background.</td> <td style="width: 20%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(b) If your answer is <math>x = 2</math> draw a shark in the background.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>                                                                                                | (a) If your answer is $x = 2, -2$ draw a whale in the background.                       |  | (b) If your answer is $x = 2$ draw a shark in the background.                           |  |
| (a) If your answer is $-2 \leq x \leq 2$ draw a seashell in the background.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (b) If your answer is $-1 \leq x \leq 1$ draw a starfish in the background.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (a) If your answer is $x < -7$ or $x > -2$ draw a school of fish in the background.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (b) If your answer is $x < -9$ or $x > -7$ draw TWO fish in the background.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (a) If your answer is $x = 2, -2$ draw a whale in the background.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |
| (b) If your answer is $x = 2$ draw a shark in the background.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                     |                                                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |                                                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |                                                                                       |                                                                                         |                                                                                       |

# Facing Math Lesson 1 Algebraic Expressions

**Liying Dong**



## Facing Math Lesson 1 Algebraic Expressions:

**High school: a comprehensive manipulative program for algebra I** Henri Picciotto, 1990 *Glencoe Mathematics*, 2001 *Homework Helpers: Basic Math and Pre-Algebra* Denise Szecsei, 2025-09-12 Homework Helpers Basic Math and Pre Algebra will help build a solid mathematical foundation and enable students to gain the confidence they need to continue their education in mathematics Particular attention is placed on topics that students traditionally struggle with the most The topics are explained in everyday language before the examples are worked The problems are solved clearly and systematically with step by step instructions provided Problem solving skills and good habits such as checking your answers after every problem are emphasized along with practice problems throughout and the answers to all of the practice problems are provided Homework Helpers Basic Math and Pre Algebra is a straightforward and easy to read review of arithmetic skills It includes topics that are intended to help prepare students to successfully learn algebra including Working with fractions Understanding the decimal system Calculating percentages Solving linear equalities Graphing functions Understanding word problems **Math Advantage, Grade 8** Grace M. Burton, Harcourt Brace, 1998-05-22

**Mathematics** GLENCOE, 1995 **Algebra Workouts: Equations** Tony G. Williams, 2009-09-01 Add the vital warm up process to your algebra lessons with these workouts designed to capture students interest and reinforce their skills A broad range of concepts is covered from linear equations to factoring to pure fun Each workout is easily reproducible and includes an answer key or mini lesson demonstrating how to solve each problem Essential teaching tips for the algebra classroom are also included **Algebra Workouts: Linear Equations** Tony G. Williams, 2009-09-01 Add the vital warm up process to your algebra lessons with these workouts designed to capture students interest and reinforce their skills A broad range of concepts is covered from linear equations to factoring to pure fun Each workout is easily reproducible and includes an answer key or mini lesson demonstrating how to solve each problem Essential teaching tips for the algebra classroom are also included **Classroom-Ready Rich Algebra Tasks, Grades 6-12** Barbara J. Dougherty, Linda C.

Venenciano, 2023-03-15 Stop algebra from being a mathematical gatekeeper With rich math tasks all students can succeed Every teacher strives to make instruction effective and interesting yet traditional methods of teaching algebra are not working for many students That s a problem But the answer isn t to supplement the curriculum with random tasks Classroom Ready Rich Math Tasks for Grades 6 12 equips you with a cohesive solution 50 mathematical tasks that are rich research based standards aligned and classroom tested The tasks Are organized into learning progressions that help all students make the leap from arithmetic to algebra Offer students interesting mathematics problems to think about and solve so math is investigative interactive and engaging Provide opportunities for you to connect new content to prior knowledge or focus on an underdeveloped concept Engage students in conceptual understanding procedural practice and problem solving through critical thinking and application Come with downloadable planning tools student resource pages and extension questions

Include additional support for students who may be struggling Every learner deserves opportunities to engage in meaningful rigorous mathematics And every teacher can develop mathematical thinking and reasoning abilities in students Part of the bestselling series spanning elementary and middle school Classroom Ready Rich Algebra Tasks Grades 6 12 is a powerful add on to any core mathematics program at your school

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