

## 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!!!**

<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: 50%; padding: 2px;">(a) If your answer is <math>2 \leq x \leq 5</math> draw the following ears.</td> <td style="width: 50%; 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: 50%; padding: 2px;">(a) If your answer is <math>x &gt; 10</math> draw the following snorkel mask.</td> <td style="width: 50%; 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: 50%; 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: 50%; 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.	
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<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: 50%; padding: 2px;">(a) If your answer is <math>-6 \leq x \leq 0</math> draw the following eyebrows.</td> <td style="width: 50%; 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: 50%; 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: 50%; 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: 50%; padding: 2px;">(a) If your answer is <math>-8 &lt; x</math> draw TWO bubbles coming out of the snorkel.</td> <td style="width: 50%; 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.														
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<p><b>7.</b> <math> x + 6  = 5</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is <math>x = -1, -11</math> draw the following hair.</td> <td style="width: 50%; 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: 50%; padding: 2px;">(a) If your answer is <math>6 &lt; x &lt; 8</math> draw seaweed in the background.</td> <td style="width: 50%; 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: 50%; padding: 2px;">(a) If your answer is <math>-3 &lt; x &lt; 4</math> draw an octopus in the background.</td> <td style="width: 50%; 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.	
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<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: 50%; padding: 2px;">(a) If your answer is <math>-2 \leq x \leq 2</math> draw a seashell in the background.</td> <td style="width: 50%; 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: 50%; 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: 50%; 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: 50%; padding: 2px;">(a) If your answer is <math>x = 2, -2</math> draw a whale in the background.</td> <td style="width: 50%; 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.	
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# Facing Math Algebra

**Gary K. Rockswold, Terry A. Krieger**



**Faceing Math Algebra:**

## Decoding **Facing Math Algebra**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Facing Math Algebra**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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