

## 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;"> <tbody> <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 cars.</td> <td style="text-align: center; padding: 2px;"></td> </tr> </tbody> </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 cars.		<p><b>2.</b> <math>x + 6 &gt; 4</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <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> </tbody> </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;"> <tbody> <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> </tbody> </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;"> <tbody> <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> </tbody> </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;"> <tbody> <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> </tbody> </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;"> <tbody> <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> </tbody> </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.	
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<p><b>7.</b> <math> x + 6  = 5</math></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <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> </tbody> </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;"> <tbody> <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> </tbody> </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;"> <tbody> <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> </tbody> </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;"> <tbody> <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> </tbody> </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;"> <tbody> <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> </tbody> </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;"> <tbody> <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> </tbody> </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 Lesson 5

**Ying-Ying Zheng**



## Facing Math Lesson 5:

## Whispering the Strategies of Language: An Mental Quest through **Faceing Math Lesson 5**

In a digitally-driven world where displays reign supreme and immediate conversation drowns out the subtleties of language, the profound techniques and mental subtleties concealed within phrases frequently go unheard. Yet, located within the pages of **Faceing Math Lesson 5** a interesting literary value pulsing with raw thoughts, lies an exceptional quest waiting to be undertaken. Published by a skilled wordsmith, that marvelous opus attracts visitors on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the very fabric of every word. Within the emotional depths of the touching review, we will embark upon a honest exploration of the book is key subjects, dissect their fascinating writing fashion, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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