

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!!!**

1. $4 \leq x + 2 \leq 7$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $2 \leq x \leq 5$ 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 $6 \leq x \leq 9$ 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.		2. $x + 6 > 4$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $x > 10$ 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 $x > 2$ 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.		3. $x + 6 \leq 10$ or $x - 2 \geq 3$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $x \leq 5$ or $x \geq 4$ 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 $x \leq 4$ or $x \geq 5$ 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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4. $-3 \geq -3x \geq -9$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $-6 \leq x \leq 0$ 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 $1 \leq x \leq 3$ 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.		5. $5x \leq -15$ or $2x \geq 6$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $x \leq 3$ or $x \geq -3$ 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 $x \leq -3$ or $x \geq 3$ 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.		6. $-15 < x - 7$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $-8 < x$ 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 $-8 > x$ 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.	
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7. $x + 6 = 5$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $x = -1, -11$ 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 $x = -1$ 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.		8. $5 < x - 1 < 7$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $6 < x < 8$ 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 $4 < x < 6$ 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.		9. $-2 < 1 - x < 5$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $-3 < x < 4$ 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 $-4 < x < 3$ 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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10. $-2 \geq -2x - 4 \geq -6$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $-2 \leq x \leq 2$ 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 $-1 \leq x \leq 1$ 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.		11. $-9x < 18$ or $x + 5 < -2$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $x < -7$ or $x > -2$ 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 $x < -9$ or $x > -7$ 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.		12. $3x - 2 = 4$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(a) If your answer is $x = 2, -2$ 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 $x = 2$ 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

RJ Shavelson



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