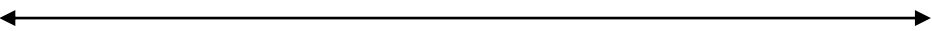
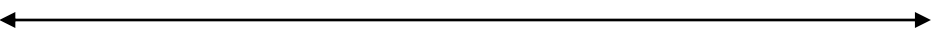


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|--|---|
| Topic: Solving Linear Inequalities Using Addition and Subtraction | Name: _____ Class: Math 9 Date: _____ |
| Questions/Main Ideas: | Notes: |
| | <div data-bbox="516 394 1442 472" style="border: 1px solid black; padding: 5px;"> Goal: 1. Use addition and subtraction to solve inequalities. </div> <p>Review:</p> <p>Which of the following is a solution for $d \leq -3\frac{1}{3}$?</p> <p>1. -3.5 2. 0 3. -3</p> <p>Graph each inequality.</p> <p>1. $c < 7$</p> <div data-bbox="516 1087 1442 1117" style="text-align: center;">  </div> <p>2. $m \geq -2$</p> <div data-bbox="516 1381 1442 1411" style="text-align: center;">  </div> <p>Solving inequalities:</p> <p>When solving inequalities we use the same methods that we use when solving equations</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div data-bbox="576 1759 711 1789" style="text-align: center;"> $x + 4 = 9$ </div> <div data-bbox="933 1759 1068 1789" style="text-align: center;"> $x + 4 < 9$ </div> </div> |

It is important to note that when we add or subtract a number to both sides of an inequality the inequality stays true.

Examples:

For each of the following inequalities, solve the inequality, verify the solution and graph the solution.

1. $m - 3 \geq -2$

2. $4.2 + 2x < x - 6.5$



3. $y + 5 > 8$

4. $-11 + 3a \geq 2a + 4$

