**Solving Linear Inequalities GREEN**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **One variable** | x + 5 ≥ 13 | 10x + 43 < 13 | 4x + 5 > 17 | 3x – 4 ≤ 11 |
| **Variable on both sides** | 4x + 3 > 9 + 2x | 5x + 3 ≤ x + 19 | 3x – 2 ≥ 5x – 8 | 1 – 7x < 3x + 11 |
| **Inequalities with brackets!** | 2(x – 4) < x + 7 | 3(5x – 1) ≥ 2(7x + 2) | 2(x – 4) > 3(x + 2) | 2(x + 1) ≤ 4(x – 2) |

**Solving Linear Inequalities AMBER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **One variable** | x + 5 ≥ 13Image result for number line -5 15 | 10x + 43 < 13Image result for number line -5 15 | 4x + 5 > 17Image result for number line -5 15 | 3x – 4 ≤ 11Image result for number line -5 15 |
| **Variable on both sides** | 4x + 3 > 9 + 2xImage result for number line -5 15 | 5x + 3 ≤ x + 19Image result for number line -5 15 | 3x – 2 ≥ 5x – 8Image result for number line -5 15 | 1 – 7x < 3x + 11Image result for number line -5 15 |
| **Inequalities with brackets!** | 2(x – 4) < x + 7Image result for number line -5 15 | 3(5x – 1) ≥ 2(7x + 2)Image result for number line -5 15 | 2(x – 4) > 3(x + 2)Image result for number line -5 15 | 2(x + 1) ≤ 4(x – 2)Image result for number line -5 15 |

**Solving Linear Inequalities RED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **One variable** | x + 5 ≥ 13 -5 -5Image result for number line -5 15 | 10x + 43 < 13 - 43 - 43Image result for number line -5 15 | 4x + 5 > 17Image result for number line -5 15 | 3x – 4 ≤ 11Image result for number line -5 15 |
| **Variable on both sides** | 4x + 3 > 9 + 2x - 2x - 2xImage result for number line -5 15 | 5x + 3 ≤ x + 19 - x - xImage result for number line -5 15 | 3x – 2 ≥ 5x – 8Image result for number line -5 15 | 1 – 7x < 3x + 11Image result for number line -5 15 |
| **Inequalities with brackets!** | 2(x – 4) < x + 7Image result for number line -5 15 | 3(5x – 1) ≥ 2(7x + 2)Image result for number line -5 15 | 2(x – 4) > 3(x + 2)Image result for number line -5 15 | 2(x + 1) ≤ 4(x – 2)Image result for number line -5 15 |