**Solving Linear Inequalities GREEN**

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

**Solving Linear Inequalities AMBER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **One variable** | $$x+5\geq 13$$Image result for number line -5 15 | $$10x+43<13$$Image result for number line -5 15 | $$4x+5>17$$Image result for number line -5 15 | $$3x-4\leq 11$$Image result for number line -5 15 |
| **Variable on both sides** | $$4x+3>9+2x$$Image result for number line -5 15 | $$5x+3\leq x+19$$Image result for number line -5 15 | $$3x-2\geq 5x-8$$Image result for number line -5 15 | $$1-7x<3x+11$$Image result for number line -5 15 |
| **Inequalities with brackets!** | $$2(x-4)<x+7$$Image result for number line -5 15 | $$3(5x-1)\geq 2(7x+2)$$Image result for number line -5 15 | $$2(x-4)>3(x+2)$$Image result for number line -5 15$-15$ $-14$ $-13$ $-12$ $-11$ $-10$ | $$2(x+1)\leq 4(x-2)$$Image result for number line -5 15 |

**Solving Linear Inequalities RED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **One variable** | $x+5\geq 13$ $-5$ $-5$Image result for number line -5 15 | $10x+43<13$ $-43$ $-43$Image result for number line -5 15 | $4x+5>17$Image result for number line -5 15 | $3x-4\leq 11$Image result for number line -5 15 |
| **Variable on both sides** | $$4x+3>9+2x$$ $-2x$ $-2x$Image result for number line -5 15 | $$5x+3\leq x+19$$ $-x$ $-x$Image result for number line -5 15 | $$3x-2\geq 5x-8$$Image result for number line -5 15 | $$1-7x<3x+11$$Image result for number line -5 15 |
| **Inequalities with brackets!** | $$2(x-4)<x+7$$Image result for number line -5 15 | $$3(5x-1)\geq 2(7x+2)$$Image result for number line -5 15 | $$2(x-4)>3(x+2)$$Image result for number line -5 15$-15$ $-14$ $-13$ $-12$ $-11$ $-10$ | $$2(x+1)\leq 4(x-2)$$Image result for number line -5 15 |