|  |  |
| --- | --- |
| **Solving Equations** (top layer) | Do you have a constant added or subtracted on both sides of the equal sign? |
| Does your variable have a coefficient other than 1? |
| You should have a simple equation with a variable = a number. Check your solution by substituting the number in the original equation. |

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| --- | --- | --- |
| **GLUING TAB** (middle layer) | Choose the constant that is on the same side as the variable. Undo that constant by adding the opposite to both sides of the equation.7 = 5*x*−3Add positive 3 to both sides. |  YES |
| Undo the coefficient of the variable by doing the opposite operation (multiply or divide).

|  |  |
| --- | --- |
| 3*x* = 12Divide by 3 | $$\frac{x}{4}=6$$Multiply by 4 |

 |  YES |
| Solution: *x* = 5Original equation: 2(*x*−3) = *x*−12(5−3) = 5−12(2) = 44 = 4 |  YES |

|  |  |  |
| --- | --- | --- |
| **GLUING TAB** (bottom layer) | The constant values are only on one side of the equation. Go to the next step.  |  NO |
| The variable has a coefficient of 1. Go to the next step. |  NO |
| My solution checks in the original equation!  |  YAY! |

Source:

Carter, S. (2013, November 19). Solving Equations Flowchart Foldable [Blog post]. Math = Love.
https://mathequalslove.net/solving-equations-flowchart-foldable/