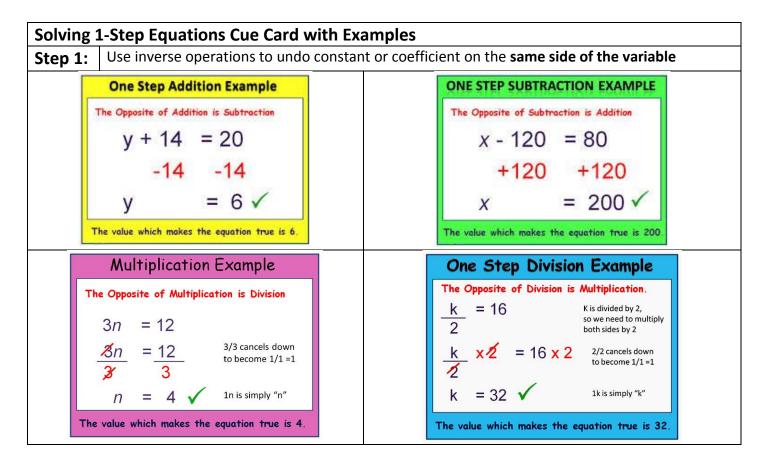
| Inverse Operations: (Opposites) |                           |
|---------------------------------|---------------------------|
| Addition & Subtraction          | Multiplication & Division |
| Positive # & Negative #         | Square & Square Root      |



| Solving | Solving 2-Step Equations Cue Card w/ examples                                 |  |  |   |  |
|---------|---|--|--|---|--|
| Step 1: | Use inverse operations to undo the constant on the same side of the variable. |  |  |   |  |
| Step 2: | Use inverse operations to undo the multiplication or division                 |  |  |   |  |
| Example | -3x +   |  |  | $\frac{x}{2} - 6 = 3 \\ + 6 + 6 \\ (2) \frac{x}{2} = 9 (2) \\ x = 18$ |  |

## Solving Equations Cue Cards (with examples)

| Solving Multi-Step Equations |   |   |  |  |  |
|------------------------------|---|---|--|--|--|
| Step<br>1:                   | Distribute<br>5(x + 6)<br>5x + 30   |   |  |  |  |
| Step<br>2:                   | Combine Like Terms on the SAME<br>the equal sign $4a + 5 + 2a$ $6a + 2$   |   |  |  |  |
| Step                         | Is there a variable on both sides?  |   |  |  |  |
| 3:                           | Yes; Use inverse operations (add or subtract)<br>to move the variable term to the left No; Go to Step 4   |   |  |  |  |
| Step<br>4:                   | Use inverse operations to undo the constant on the same side of the variable  |   |  |  |  |
| Step<br>5:                   | Use inverse operations to undo any multiplication or division   |   |  |  |  |
| Examp                        | mple 1: $4x+9 = 2x-6$<br>-2x = -2x<br>2x+9 = -6<br>-9 = -9<br>2x = -15<br>2x = -15<br>2x = -15<br>$x = -\frac{15}{2}$<br>Example 2: $-3(2n6n + 9 + 8n)$<br>2n + 9 + 8n<br>2n + | $3) = 25 - 8n \\ 25 - 8n \\ +/8n \\ -9 \\ 16 \\ 2 \\ n = 8$ |  |  |  |