Balancing Equations Activity Worksheet **ANSWER KEY**

For each equation, enjoy using the seesaw to:

>   **1. Evaluate   2. Solve   3. Check your results**

$x = 5 - 2$

Evaluate:

>   Unknown Variable = _x_, Coefficient = _1_,   Constants = _+5, -2_

Solve: **Check:**

$x = 5 - 2$ $x = 5 - 2 \mid$ where x = 3

$\mathbf{x = 3}$ $3 = 5 - 2$

 $3 = 3$

$2y = -2 + 4$

Evaluate:

>   Unknown Variable = _y_, Coefficient = _2_, Constants = _-2, +4_

Solve: **Check:**

$2y = -2 + 4$ $2y = -2 + 4 \mid$ where y = 1

$2y = 2$ $2(1) = -2 + 4$

$\dfrac{2y}{2} = \dfrac{2}{2}$ $2 = -2 + 4$

$\mathbf{y = 1}$ $2 = 2$

9a = 8 + 7a

Evaluate:

Unknown Variable = _a_ , Coefficient = _9, 7_ , Constants = _+8_

Solve:

$9a = 8 + 7a$

$-7a \qquad -7a$

$2a = 8$

$\dfrac{2a}{2} = \dfrac{8}{2}$

$a = 4$

Check:

$9a = 8 + 7a \mid$ where a = 4

$9(4) = 8 + 7(4)$

$36 = 8 + 28$

$36 = 36$