Name: _____   Date: _____

Learning Goal 6.1	I can solve equations.

Example Solve the following equations.

$9a - 2 = 5a + 10$

$-5a \quad\quad -5a$

$4a - 2 = 10$

$\quad +2 \quad +2$

$\dfrac{4a}{4} = \dfrac{12}{4}$

$a = 3$

B
E
D
M
A
S

$5(x - 3) = 6x + 11$

$+5x - 15 = 6x + 11$

$-5x \quad\quad -5x$

$-15 = x + 11$

$-11 \quad\quad -11$

$-26 = x$

$x = -26$

$-3m + 7 = 2m - 13$

$-2m \quad\quad -2m$

$-5m + 7 = -13$

$\quad -7 \quad -7$

$\dfrac{-5m}{-5} = \dfrac{-20}{-5}$

$m = 4$

$0.5(t - 54) = 0.25(t - 24)$

$\dfrac{1}{2}(t - 54) = \dfrac{1}{4}(t - 24)$

$4 \times \left(\dfrac{1}{2}t - 27 = \dfrac{1}{4}t - 6 \right)$

$2t - 108 = t - 24$

$-t \quad\quad\quad -t$

$t - 108 = -24$

$\quad +108 \quad +108$

$t = 84$

$12x \left(\dfrac{(k-1)}{6} = \dfrac{(k-3)}{4} \right)$

4 8 12
6 12

$2(k - 1) = 3(k - 3)$

$+2k - 2 = 3k - 9$

$-2k \quad\quad -2k$

$-2 = k - 9$

$\quad +9 \quad\quad +9$

$7 = k$

$k = 7$

$17 = 5 - \dfrac{60}{b}, \quad b \neq 0$

$-5 \quad -5$

$b \times 12 = -\dfrac{60}{b} \times b$

$\dfrac{12b}{12} = \dfrac{-60}{12}$

$b = -5$