**6.2 Part 1 – Solving Multi-Step Equations**

Some equations have a term containing a variable on both the left- and right-hand sides. To solve, we must gather the variables on one side of the equation and the constants on the other. To do this, we still use inverse operations.

Ex. 1: Solve.

1. $6x+2=10+4x$ (b) $-3c+7=2c-8$

Ex. 2: Solve.

$$0.75\left(t-120\right)=0.25t-7.5$$

Ex. 3: To cater a lunch, Tina's Catering charges $100, plus $15 per meal. Norman's Catering charges $25, plus $20 per meal. Write and solve an equation to determine the number of meals that will result in equal costs at the two companies.