MFM2PI – *Unit 1: Linear Equations – Lesson 3*  Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solving Multi-Step Equations and Checking**

1. **How Is “One-Step” Different Than “Multi-Step”?**

Most equations require more than one step to solve them! Nonetheless, there is nothing new to learn as far techniques – it’s just more of the same! Use the following rules as a guide:

1) Complete all *expanding and simplifying first*!

2) Complete all *adding and subtracting second*!

3) Complete all *multiplying and dividing third*!

Make sure to get all the variables on the left side and all the constants on the right side!

1. **Solving Multi-Step Equations**

*Solve the following multi-step equations:*

a) 24 + x = 3x b) 8b + 3 = – 4 – 6b

c) 10a – 2 = 6(a + 1) d) 3(y – 1) = – 5(y – 2) + 3

1. **Checking Your Answers**

To check if your answer to any equation is correct, we substitute our answer into *both sides of the equation* and perform the calculations. If **the** **left side equals the right side**, your answer is **correct**!

*Check answers c) and d) from Part B.*

**HW: *Worksheet – Unit 1 – Lesson 3***