# Study Guide

## 3.1-3.3 Quiz

### 3.1:  Solve One-Step Equations

**- Be able to use inverse operations to isolate the variable and solve one-step equations**

**Ex:** $\dfrac{2}{7}n = -5$  **Ex:** $-5 + x = -4$  **Ex:** $1 - x = -2$

**Ex:** $-4x = -16$  **Ex:** $\dfrac{x}{2} = -4$  **Ex:** $x - 10 = -3$

**Ex:** $9x = 3$  **Ex:** $4x = 7$  **Ex:** $-2x = 5$

<u>**3.2/3.3: Solve 2/Multi-Step Equations**</u>

- **Be able to use inverse operations and reverse PEMDAS to solve multi-step equations**

**Ex:** $4w + 2w = 24$

**Ex:** $\dfrac{x}{2} + 5 = 11$

**Ex:** $-4x + 5 = 21$

**Ex:** To join a local gym you must pay a one-time membership fee of $50. Each month you go you must also pay a monthly fee of $15. One gym member paid a total of $125. Write and solve an equation to determine the number of months this member attended the gym. Be sure to identify a variable and what it represents.

**Ex:** $2x + 7 = 5$

**Ex:** $5x + 4(3 - x) = 17$

**Ex:** $-4 = 2(x - 2) - 3(1 - x)$

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