

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: $\frac{2}{7}n = -5$

Ex: $-5 + x = -4$

Ex: $1 - x = -2$

Ex: $-4x = -16$

Ex: $\frac{x}{2} = -4$

Ex: $x - 10 = -3$

Ex: $9x = 3$

Ex: $4x = 7$

Ex: $-2x = 5$

3.2/3.3: Solve 2/Multi-Step Equations

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

Ex: $4w + 2w = 24$

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

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

Ex: $\frac{3}{4}(z - 6) = 12$

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

- Be able to write and solve an equation to model real-world situations.

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.