

Prealgebra ~ Lesson 15

Work the following examples as you listen to the recorded lecture.

Solving Equations: Addition and Multiplication Properties

Steps for solving equations:

1. **Simplify each side** of the equation by distributing multiplication and/or combining like terms.
2. Get the **variable terms to the same side** by **adding or subtracting** the smaller term.
3. Get rid of **any number** that is **added or subtracted** on the **side with the variable** by performing the **opposite operation**.
4. **Divide** both sides by the **coefficient** of the variable.

Solve the following equations:

Example 1:
 $f + 4 = -6$

Example 2:
 $1 = y + 7$

Example 3:
 $14z = 13z - 15$

Example 4:
 $6y = 48$

Example 5:
 $-2x = 26$

Example 6:
 $-9x = 0$

Example 7: $17z = 16z + 8$

Example 8: $-10x = -10$

Example 9: $11n = 10n + 21$

Example 10: $-36 = y + 12$