

Unit 0 Prerequisites from Prior Courses (Review)

Notes Day 6 Solving Multi Step Equations

(PH ALG 2-3 and 2-4)

Name _____

Date _____ Hour _____

Hints for solving multi step equations:

- Use the Distributive Property if there are parentheses on ONE side of an equation.
- If there are like terms on ONE side of an equation, combine them.
- Finally, use the properties of equality to solve the equation.

Example 1: Solve each multi-step equation. Justify each step with a reason.



a. $2(x - 3) = 8$

_____	_____
_____	_____
_____	_____
_____	_____

b. $3x - 4x + 6 = -2$

_____	_____
_____	_____
_____	_____
_____	_____

Example 2: Solve the equations by finding a common denominator first. Then use properties of equality to simplify.

a. $\frac{2x}{3} + \frac{x}{2} = 7$

b. $\frac{m}{4} + \frac{m}{2} = \frac{5}{8}$

Example 3: Solve each equation. Use the Addition or Subtraction Properties of Equality to GATHER VARIABLE TERMS on one side of the equation.

a. $6x + 3 = 8x - 21$

b. $3(x - 4) = 2x + 1$

Summary for Solving Equations:

Step 1	Use the Distributive Property to remove parentheses.
Step 2	Gather and combine like terms on each side.
Step 3	Undo addition or subtraction.
Step 4	Undo multiplication or division.

Homework: Page 91 #12 – 15 all, 21 – 25 all, and page 98 # 3 – 15 odd

YOU MUST SHOW ALL WORK FOR FULL CREDIT!