Name: _____ Date: _____ Lesson 8

Lesson 8: Solving Equations with Distributive Property

Remember:

1. Use Distributive Property FIRST!!!
   a. Signs mean: positive & negative
2. Use Order of Operations BACKWARDS to solve the equation.
3. Integer Rules apply.

Ex. 1: Solve each equation. Check your solution.

A. $4(y-3)=4$

$4y-12=4$
$+12 \quad +12$
$\frac{4y}{4}=\frac{16}{4}$
$y=4$

check: $4(4-3)=4$
$4(1)=4$
$4=4$ ✓

B. $-2(g-1)=-4$

$-2g+2=-4$
$-2 \quad -2$
$\frac{-2g}{-2}=\frac{-6}{-2}$
$g=3$

C. $3(2-x)=-12$

$6-3x=-12$
$-6 \quad -6$
$\frac{-3x}{-3}=\frac{-18}{-3}$
$x=6$

D. $(p-8)(-2)=8$

$-2p+16=8$
$-16 \quad -16$
$\frac{-2p}{-2}=\frac{-8}{-2}$
$p=4$

E. $-3(-x-4)=-3$

$3x+12=-3$
$-12 \quad -12$
$\frac{3x}{3}=\frac{-15}{3}$
$x=-5$

F. $(y+7)(-3)=-7$

$-3y-21=-7$
$+21 \quad +21$
$\frac{-3y}{-3}=\frac{14}{-3}$
$y=\frac{-14}{3}$

HW: Lesson 8 Worksheet