Lesson 3.5 - Solving First-Degree Equations Involving Multiple Steps – Part 2

This lesson contains equations in which the distributive property is used first.

Reviewin	g the	Distributive	Property
100,10,111	5		- i operej

State whether the following statements are true or false. If false, correct the statement.

LP#1 3(x + 4) = 3x + 12	6(y + 7) = 6y +7	4(n+2) = 4n+8
LP#2 -3(x + 5) = -3x + 15	-6(w – 9) = -6w + 54	-5(m + 9) = -5m – 9
LP#3 (y - 3)(-4) = -4y +12	(a – 7)(6) = y – 42	(a + b)(5) = 5a + 5b
LP#4 -5(y+1) = -5 – 5	3(x + 4) = 3x + 12	-2(y + 5) = -2y – 10

Complete the rule below.

Let *a*, *b*, and *c* represent real numbers,

$$a(b+c) =$$

LP#5	28 = 4(m+5)	120 = 15(w - 2)
2(x+3) = -16		
2(x+3) 10		
LP#6	-4(p-9) = -48	14(4-d) = -168
$\frac{1}{8(v-1)} = 64$		
0(9 1) 01		
LP#7	2(p-20) = 8	4 = 4(b-2)
6 - 3(r - 1)		(0 _)
0 = -3(x - 1)		
	1	1

Class Notes – Solve each first-degree equation and check. If you do not solve an equation, explain why.

	A(1-5r) = -56	-4(1-6r) - 164
	4(1-3x) = -30	-4(1-0x) - 104
5(6x - 1) = -35		
D#2	6(10 + r) = 122	6(7x+10) - 144
	0(10+x) = 132	-0(7x+10) = -144
5(x-1) = 20		
D//2	2(2+5) 225	$\zeta(1 + 4) > 00$
K #3	3(3+6x) = 225	-6(1+4x) = 90
-2(6x+9) = -150		

Review – Solve each first-degree equation and check. If you do not solve an equation, explain.