## **3.5** Solving First-Degree Equations Involving Multiple Steps – Part 1

When the left side and right side of an equation are completely simplified, then the equation is ready to be solved. Using two operations is necessary to solve a multi-step equation. To solve the equation, we must make use of the order of operations (PEMDAS). However, when solving the equation we complete any addition/subtraction, first, then multiplication/division.

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

	<b>.</b>	A. 10 00
Set I	5x - 6 = 9	4m = 10 = 20
3x + 2 = 8		
Set 2	n	2
	$\frac{P}{2} + 9 = -8$	$\frac{w}{1} + 10 = 15$
$5 \pm \frac{a}{2} = 37$	3	11
3 + 2 = 37		



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

R#1	5x + 7 = -38
2x - 7 = 17	

R#2	4x - 3 = 13	
6r = 4 - 20		
0x - 4 = 20		
D#3		$2 \times 0 = 12$
<b>N#</b> 3		$5\lambda - 9 - 12$
4x + 1 = 49		$3\lambda - 9 - 12$
4x + 1 = 49		$5\lambda - 9 - 12$
4x + 1 = 49		$5\lambda - 9 - 12$
4x + 1 = 49		$3\lambda - 9 - 12$
4x + 1 = 49		52 - 9 - 12
4x + 1 = 49		$3\lambda - 9 - 12$
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4x + 1 = 49		52 - 9 - 12
4x + 1 = 49		52 - 9 - 12
4x + 1 = 49		54 - 9 - 12
4x + 1 = 49		37 - 3 - 12
4x + 1 = 49		37 - 3 - 12

## Homework -

Solve each first-degree equation and check. If you do not solve an equation, explain.				
1)	7 + 2x = 27	<b>2</b> ) $10 - 2x = 28$	<b>3</b> ) $-3x + 6 = 6$	<b>4</b> ) $-7x + 7 = -77$
5)	7x - 4 = 24	<b>6</b> ) $4x + 8 = 4$	<b>7</b> ) $2x + 5 = 9$	<b>8</b> ) $1 - 5x = -59$
9)	5x + 4 = -41	<b>10</b> ) 3 <i>x</i> – 8 = 1	<b>11</b> ) 7 <i>x</i> + 7 = 84	<b>12</b> ) -6 + 3 <i>x</i> = 27
13	-2x + 7 = -11	<b>14</b> ) $6 - 2x = -8$	<b>15</b> ) 3 <i>x</i> + 7 = 28	<b>16</b> ) $6x - 10 = 26$

## Synthesis

TBD