

Solving Multi-Step Equations

At the end of the lesson I can _____.

<p>a) $4(x + 1) = 2x + 4$</p> <ul style="list-style-type: none"> • Work <p>Explanations</p>	<p>b) $9 - 5x + 2 = 11 - 5x$</p> <ul style="list-style-type: none"> • Work <p>Explanations</p>
<p>c) Rena says that if $x = -5$, the equation below is true. Her friend, Milo, says that the solution is $x = 3$. Who is correct? Justify your conclusions.</p> $9(x + 4) = 1 + 2x$	
<p>Practice! Record your work and your sequencing steps as you solve!</p>	
<p>d) $2 - (y + 2) = 3y$</p> <ul style="list-style-type: none"> • Work <p>Explanations</p>	<p>e) $6(2x - 5) = -(x + 4)$</p> <ul style="list-style-type: none"> • Work <p>Explanations</p>

f) $8a + a - 3 = 6a - 2a - 3$ • Work Explanations	g) $8(3m - 2) - 7m = 0$ • Work Explanations														
h) $4t - 2 + t^2 = 6 + t^2$ • Work Explanations	i) $4x - 1 + 5 = 4x + 3$ • Work Explanations														
j) What did you get for a solution in part (i)? Plug in 3 different numbers of your choosing. What do you notice?															
Check your understanding. Solve the following equations for x, if possible. Check your solutions!															
a) $-(2 - 3x) + x = 9 - x$	b) $\frac{x+2}{8} = \frac{3}{4}$														
<p style="text-align: center;">Rate yourself on your level of understanding:</p> <table style="width: 100%; text-align: center;"> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> </tr> <tr> <td colspan="2">I feel completely lost.</td> <td colspan="2">I get it.</td> <td colspan="3">I can do this with zero errors!</td> </tr> </tbody> </table>		1	2	3	4	5	6	7	I feel completely lost.		I get it.		I can do this with zero errors!		
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