

## Solving Equations Review Find and Fix the Mistakes

Name\_\_\_\_\_

Problem and Incorrect Solution	Explanation of Errors Made (some have more than one mistake)	Correct Solution (show all work)
$ \begin{array}{r} 2x - 2 = 14 \\ -2 - 2 \\ \hline 2x - 2 \\ -2 \\ \hline 2x \\ \hline 2x \\ \hline 2 \\ \hline x \\ = 6 \end{array} $		
5y + (-5) = 10 -5 - 5 $\frac{5y}{5} = 5$ y = 1		
$\frac{\frac{x}{6} + 3 = -18}{-3 - 3}$ $6 \cdot \frac{x}{6} = -15 \cdot 6$ $x = -90$		
$ \begin{array}{r} 4 - 2x = -2 \\ +4 +4 \\ \hline \frac{2x}{2} = \frac{2}{2} \\ x = 6 \end{array} $		

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Problem and Incorrect Solution	Explanation of Errors Made (some have more than one mistake)	Correct Solution (show all work)
$\begin{array}{rrr} -2(8m+8) &= -16\\ -16m+16 &= -16\\ \hline -16& -16\\ \hline \hline -16m &= -32\\ \hline \hline 16 &  16\\ \hline m &= -2 \end{array}$		
5(1 + 4h) + 2h = 27 5 + 20h + 2h = 27 $\frac{27h}{27} = 27$ h = 1		
-2(x - 8) + 4x = -12 -2x - 16 + 4x = -12 -2x - 16 + 4x = -12 -2x - 16 = -12 +16 + 16 $\frac{-2x}{2} = \frac{4}{2}$ x = 2		

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Name KEY

Problem and Incorrect Solution	Explanation of Errors Made (some have more than one mistake)	Correct Solution (show all work)
$ \begin{array}{r} 2x - 2 = 14 \\ -2 & -2 \\ \hline \frac{2x}{2} & = 12 \\ \hline \frac{2x}{2} & = 6 \end{array} $	Subtracted 2 from both sides instead of adding	x = 8
5y + (-5) = 10 -5 - 5 $\frac{5y}{5} = 5$ y = 1	Subtracted 5 from both sides instead of adding	x = 3
$\frac{\frac{x}{6} + 3 = -18}{\frac{-3}{-3} - 3}$ 6 • $\frac{x}{6}$ = -15 • 6 x = -90	Did not add -18 + (-3)	x = -126
$ \begin{array}{r} 4 - 2x = -2 \\ +4 +4 \\ \hline \frac{2x}{2} = \frac{2}{2} \\ x = 6 \end{array} $	<ul> <li>Added 4 to both sides</li> <li>Did not bring down "negative" with the two</li> <li>2/2 is not 6</li> </ul>	x = -3

## Solving Equations Review Find and Fix the Mistakes

Problem and Incorrect Solution	Explanation of Errors Made (some have more than one mistake)	Correct Solution (show all work)
$\begin{array}{rrr} -2(8m+8) &= -16\\ -16m+16 &= -16\\ \hline -16& -16\\ \hline \hline -16m &= -32\\ \hline \hline 16 &  16\\ \hline m &= -2 \end{array}$	<ul> <li>-2(8) = -16</li> <li>Did not divide both sides by -16</li> </ul>	m = 0
5(1 + 4h) + 2h = 27 5 + 20h + 2h = 27 $\frac{27h}{27} = 27$ h = 1	Combined unlike terms	h = 1 (still get same answer!)
-2(x - 8) + 4x = -12 -2x - 16 + 4x = -12 -2x - 16 + 4x = -12 -2x - 16 = -12 +16 + 16 $-\frac{2x}{2} = \frac{4}{2}$ x = 2	<ul> <li>-2(-8) = +16</li> <li>-2x + 4x = +2x</li> <li>Did not divide by -2</li> </ul>	x = -14

Thank you for purchasing this worksheet.

I will be posting many more math activities that are aligned to the seventh grade common core. Please consider following my TpT Store. <u>http://</u> <u>www.teacherspayteachers.com/Store/Math-on-the-Move</u>

Thanks again! Cheryl

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