### Lesson 6 Practice Problems

1. Solve each of these equations. Explain or show your reasoning.
* $2b+8−5b+3=-13+8b−5$
* $2x+7−5x+8=3\left(5+6x\right)−12x$
* $2c−3=2\left(6−c\right)+7c$
1. Solve each equation and check your solution.
* $-3w−4=w+3$
* $3\left(3−3x\right)=2\left(x+3\right)−30$
* $\frac{1}{3}\left(z+4\right)−6=\frac{2}{3}\left(5−z\right)$
1. Elena said the equation $9x+15=3x+15$ has no solutions because $9x$ is greater than $3x$. Do you agree with Elena? Explain your reasoning.
2. The table gives some sample data for two quantities, $x$ and $y$, that are in a proportional relationship.
	1. Complete the table.
	2. Write an equation that represents the relationship between $x$ and $y$ shown in the table.
	3. Graph the relationship. Use a scale for the axes that shows all the points in the table.

| * $x$
 | * $y$
 |
| --- | --- |
| * 14
 | * 21
 |
| * 64
 |  |
|  | * 39
 |
| * 1
 |  |

* 
* (From Unit 3, Lesson 3.)



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