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Unit 4**Lesson 6: Practice Problems**

1. Solve each of these equations. Explain or show your reasoning.

a. $2b + 8 - 5b + 3 = -13 + 8b - 5$

b. $2x + 7 - 5x + 8 = 3(5 + 6x) - 12x$

c. $2c - 3 = 2(6 - c) + 7c$

2. Solve each equation and check your solution.

a. $-3w - 4 = w + 3$

b. $3(3 - 3x) = 2(x + 3) - 30$

c. $\frac{1}{3}(z + 4) - 6 = \frac{2}{3}(5 - z)$

3. 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.

4. The table gives some sample data for two quantities, x and y , that are in a proportional relationship.

x	y
14	21
64	
	39
1	

a. Complete the table.

b. Write an equation that represents the relationship between x and y shown in the table.



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- c. Graph the relationship. Use a scale for the axes that shows all the points in the table.

