

Lesson 6 Practice Problems

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

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

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

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

2. Solve each equation and check your solution.

$$-3w - 4 = w + 3$$

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

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

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.

a. Complete the table.

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

c. 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.)