

Lesson 6 Practice Problems

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

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

$$2b + 8 - 5b + 3 = -13 + 8b - 5$$
 $2x + 7 - 5x + 8 = 3(5 + 6x) - 12x$

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

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.

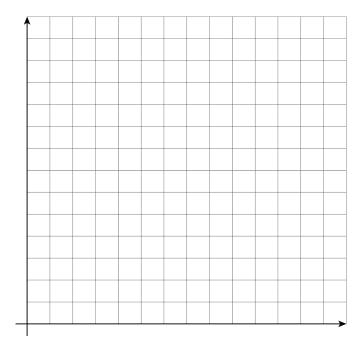
4. The table gives some sample data for two quantities, x and y, that are in a proportional relationship.

а	Com	nlete	the	table.

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

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

x	у
14	21
64	
	39
1	



(From Unit 3, Lesson 3.)