



Chapter 7, Lesson 3, Part 1

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$$4x + y = 28$$

$$2x + 3y = 24$$

Adding $\longrightarrow 6x + 4y = 52$

Subtracting $\longrightarrow 2x - 2y = 4$

Set III Problem 14.

$$\left| \frac{-x}{6} - \frac{x}{6} - y \right|$$

$$\left| \frac{-x}{18} - \frac{x}{18} - \frac{x}{18} - \frac{x}{18} - \frac{x}{18} - \frac{x}{18} - y - y - y \right|$$

$$\left| \frac{-x}{6} - \frac{x}{6} - y - \frac{x}{6} - \frac{x}{6} - y - \frac{x}{6} - \frac{x}{6} - y \right|$$

Multiply the first equation by ____ to get the second equation.

Set III Problem 15.

$$\begin{array}{r} | \text{-----} x \text{-----} | \\ | -y- | -y- | -y- | -y- | -11- | \end{array}$$

$$\begin{array}{r} | \text{-----} x \text{-----} | \text{-----} x \text{-----} | \\ | -y- | -y- | -y- | -y- | -y- | -y- | -y- | -y- | - 22 - | \end{array}$$

$$\begin{array}{r} | \text{-----} x \text{-----} | \text{-----} x \text{-----} | \\ | -y- | -y- | -y- | -y- | -11- | -y- | -y- | -y- | -y- | -11- | \end{array}$$

Multiply the first equation by ____ to get the second equation.

Set III Problem 17 b).

$$5x - 4y = 1$$

Multiply by 2.

$$2(5x - 4y = 1)$$

$$10x - 8y = 2$$

Set III Problem 17 d).

$$x - 9y = -10$$

Multiply by -1.

$$-1(x - 9y = -10)$$

$$-x + 9y = 10$$

Set III Problem 17 f).

$$10x - 15y = 40$$

Divide by 5.

$$10x - 15y = 40$$

5

$$2x - 3y = 8$$

Homework

Set I

1. Graph the following equations.

a) $2x + 7y = 7$

b) $3x - y = -6$

c) $y = \frac{1}{3}x + 4$

d) $x = 5$

2. A riddle that is thought to be thousands of years old is:

What we caught we threw away;

What we couldn't catch, we kept.

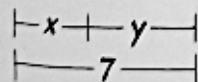
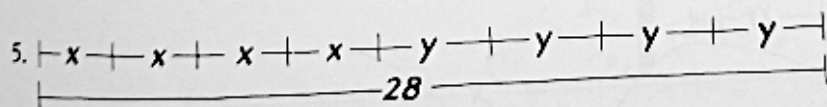
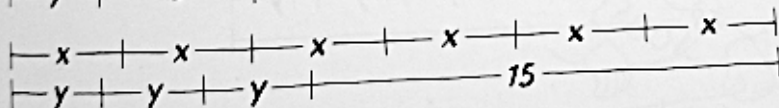
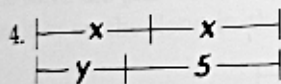
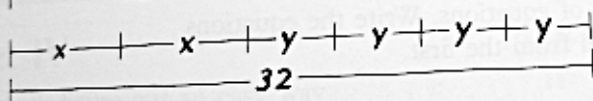
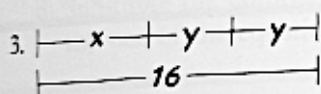
The answer is "fleas."

a) If someone has x fleas and manages to get rid of y of them, how many does he or she have left?

b) If someone got rid of x fleas and couldn't catch twice that number, how many fleas did he or she originally have?

Set II

Each of the following diagrams illustrates a pair of equations. Write the equations and tell how the second equation can be obtained from the first.



6. Write the equation that results from performing the indicated operation on both sides of each of the following equations.

a) $x + 4y = 7$ Multiply by 3.

b) $2x - 5y = 1$ Multiply by 8.

c) $8x + 2y = 20$

d) $6x - y = -3$

e) $-x + 3y = 0$

f) $12x - 8y = 36$

Divide by 2.

Multiply by -1 .

Multiply by -5 .

Divide by 4.