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## Solving Equations with Variables on Both Sides Worksheets

### Questions:

Solve questions 1-7 for the variable

1.  $-8 - x = x - 4x$

2.  $7a - 3 = 3 + 6a$

3.  $-6n - 20 = -2n + 4(1 - 3n)$

4.  $38 + 7k = 8(k + 4)$

5.  $-3(x - 1) + 8(x - 3) = 6x + 7 - 5x$

6.  $9.1r - 4.7 = 4.5r + 4.5$

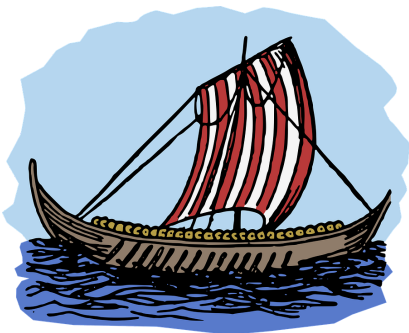
7.  $\frac{4+v}{3} = 3v - 4$

8. The sum of the values of  $x$  and  $y$  which form the solution to the system of equations

$$\frac{x+y-8}{2} = \frac{x+2y-14}{3} = \frac{3x+y-12}{11}$$

is \_\_\_\_\_?

9. A boat goes 16 km upstream and 24 km downstream in 6 hours. Also, it can cover 12 km upstream and 36 km downstream in the same time. The speed of the boat in still water is \_\_\_\_\_ km/hr



10. Let  $x, y$  constitute a solution to the following system of equations:  $ax + by = c$ ;  $bx - ay = c$

Find  $x$  and  $y$ .

| ANSWERS |   |
|---------|---|
| 1.      | 4   |
| 2.      | 6   |
| 3.      | 3   |
| 4.      | 6   |
| 5.      | 7   |
| 6.      | 2   |
| 7.      | 2   |
| 8.      | 8   |
| 9.      | 8   |
| 10.     | $x = \frac{c(a+b)}{a^2+b^2}, y = -\frac{c(a+b)}{a^2+b^2}$ |

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- Gary Schwartz

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- Barbara Cabrera

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