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## Solving Equations with Variables on Both Sides Worksheets

### Questions:

Solve questions 1-7 for the variable

1.  $13 - 4x = 1 - x$

2.  $n + 2 = -14 - n$

3.  $-10 + x + 4 - 5 = 7x - 5$

4.  $7(5a - 4) - 1 = 14 - 8a$

5.  $3(1 - 3x) = 2(-4x + 7)$

6.  $5.4z + 2.9 = 2.3 + 5.1z$

7.  $\frac{1}{2}(2 + a) = \frac{3a+4}{9}$

8. What is the solution of the following system of equations?

$$ax + by = 1$$

$$bx + ay = \frac{2ab}{a^2+b^2}$$

a.  $x = \frac{1}{a^2+b^2}, y = \frac{1}{a^2+b^2}$

b.  $x = \frac{a}{a^2+b^2}, y = \frac{b}{a^2+b^2}$

c.  $x = \frac{a^2}{a^2+b^2}, y = \frac{b^2}{a^2+b^2}$

d.  $x = \frac{2a}{a^2+b^2}, y = \frac{2b}{a^2+b^2}$

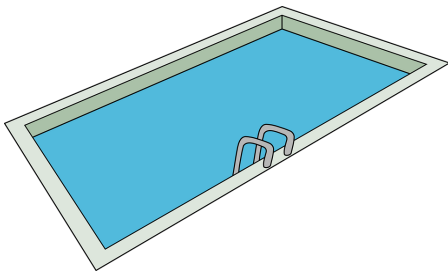
9. The sum of the values of x and y which form the solution to the system of equations

$$\frac{15}{x-y} + \frac{22}{x+y} = 5,$$

$$\frac{40}{x-y} + \frac{55}{x+y} = 13$$

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

10. It takes 12 hours to fill a swimming pool using 2 pipes. If the larger pipe is used for 4 hours and the smaller pipe for 9 hours, only half the pool is filled. The time taken by the smaller pipe to fill the pool alone is \_\_\_\_\_ hours.



ANSWERS	
1.	4
2.	-8
3.	-1
4.	1
5.	-11
6.	-2
7.	$\frac{-10}{3}$
8.	$b. x = \frac{a}{a^2+b^2}, y = \frac{b}{a^2+b^2}$

9.	11
10.	30

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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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