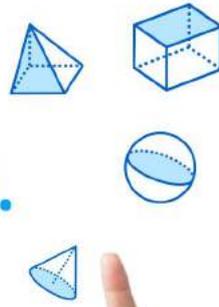


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Solving Equations with Variables on Both Sides Worksheets

Questions:

Solve questions 1-7 for the variable

1. $-7x - 3x + 2 = -8x - 8$

2. $n - 3n = 14 - 4n$

3. $-8n + 4(1 + 5n) = -6n - 14$

4. $-31 - 4x = -5 - 5(1 + 5x)$

5. $4(-8x + 5) = -32x - 26$

6. $7.8g - 3.1 = 3.9g + 0.8$

7. $\frac{3}{4}v + 5 = \frac{-1}{4}v + 6$

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

$$\frac{1}{2(2x+3y)} + \frac{12}{7(3x-2y)} = \frac{1}{2},$$

$$\frac{7}{(2x+3y)} + \frac{4}{(3x-2y)} = 2$$

is _____?

9. If Alpha Biswas travels 300 km by train and 200 km by bus, she will take 5 hours 30 minutes to complete her journey. But, if she travels 260 km by train and 240 km by bus, she will take 6 minutes longer. Then, the speed of the train is _____ km/hr

10. Points A and B are 90 km apart from each other on a highway. A car starts from A and another from B at the

same time. If they go in the same direction, they meet in 9 hours, and if they go in opposite directions, they meet in 97 hours. The speed of the faster car is _____ km/hr



ANSWERS	
1.	5
2.	7
3.	-1
4.	1
5.	No solution
6.	1
7.	1
8.	3
9.	100
10.	40

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