

Name _____ Hour _____

Solving Equations with Variables on Both Sides

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Solve each equation. Check the solution.

1. $12y = 2y + 40$

2. $6(c + 4) = 4c - 18$

3. $5m + 6 = 4 - m$

4. $14b = 16(b + 12)$

5. $7y = y - 42$

6. $9(d - 4) = 5d + 8$

7. $7p + 4 = 7 - 2p$

8. $6(f + 5) = 2f - 8$

9. $4 = -2(4.5p + 25)$

10. Deborah has two paintings in her portfolio and paints three more each week. Kai has twelve paintings in her portfolio and paints two more each week. After how many weeks will Deborah and Kai have the same number of paintings?

A) Define variable:

B) Write equation:

C) Solve equation:

11. Sparky's Electric charges \$40 to show up and \$55 an hour to work. Light 'Em Up Electric has a flat fee of \$80 and then charges \$42 an hour. Write an equation to find when the two companies will be equal.

A) Define variable:

B) Write equation:

C) Solve equation:

D) Now, give advice to someone on which company they should hire.