

Journal Entry:

You have \$85 in your bank account. Each week you plan to deposit \$8 from your allowance and \$15 from your paycheck. How many weeks from now will you have \$175?

Give your solution in the form of a reflect.

Aug 18-2:52 PM

Section 2-4
Solving Equations with Variables on Both Sides

Students will be able to:

- solve equations with variables on both sides
- identify equations that are identities or have no solution

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Solve:

$$7k + 2 = 2(2k - 5)$$

$$7k + 2 = 4k - 10$$

$$\begin{array}{r} -4k \\ \hline 3k + 2 = -10 \end{array}$$

$$\begin{array}{r} -2 \\ \hline 3k = -12 \end{array}$$

$$\frac{3k}{3} = \frac{-12}{3} \quad k = -4$$

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An office manager spent \$650 on a new energy efficient copier that will reduce the monthly electric bill from \$112 to \$88. In how many months will the copier pay for itself?

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Solve: $7(4 - a) = 3(a - 4)$

$$28 - 7a = 3a - 12$$

$$\begin{array}{r} +7a \\ \hline 28 = 10a - 12 \end{array}$$

$$\begin{array}{r} +12 \\ \hline 40 = 10a \end{array}$$

$$\frac{40}{10} = \frac{10a}{10} \quad a = 4$$

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identity:

$$\begin{array}{r} -6 = -6 \\ 0 = 0 \end{array} \quad 2+x=2+x$$

no solution:

$$\begin{array}{r} -6 = 4 \\ 0 = 5 \end{array} \quad \emptyset$$

$$x+2 = x+7$$

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solve:

$$3(4b - 2) = -6 + 12b$$

$$2x + 7 = -1(3 - 2x)$$

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Matching:

$$3y - 5 = y + 2y - 9 \quad \text{Infinitely Many}$$

$$2y + 4 = 2(y + 2) \quad \text{One Solution}$$

$$2y - 4 = 3y - 5 \quad \text{No Solution}$$

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Game: In your row, you will be solving a multi-step problem. Rules:

1. Show your work.
2. Only do one operation on your turn.
3. Only look at the previous line to see what you should do next.

Sep 22-8:43 AM

Hwk: pg. 106 - 108
#20 - 42 evens, 43, 44
46, 50 - 54 evens

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