Solving equations with fractions worksheet pdf

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Solving Linear Equations - Fractions

Objective: Solve linear equations with rational coefficients by multiplying by the least common denominator to clear the fractions.

Others where solving finear equations we will need to work with an equation with fraction coefficients. We can solve these problems as we have in the past. This is demonstrated in our next example.

Example L.

$$\frac{3}{4}x - \frac{7}{2} = \frac{5}{6}$$
 Focus on subtraction
$$+ \frac{7}{2} + \frac{7}{2}$$
 Add $\frac{7}{2}$ to both sides

Notice we will need to get a common denominator to add $\frac{1}{4} + \frac{7}{4}$. Notice we have a common denominator of 6. So we build up the denominator, $\frac{1}{4}(\frac{1}{4}) = \frac{7}{4}$, and we can now add the fractions:

$$\begin{split} \frac{3}{4}x &= \frac{21}{6} = \frac{5}{6} & \text{Same problems, with common denominator 6} \\ &= \frac{21}{6} + \frac{21}{6} & \text{Add } \frac{21}{6} \text{ to both sides} \\ &= \frac{3}{4}x = \frac{26}{6} & \text{Reduce } \frac{26}{6} \text{ to } \frac{13}{3} \\ &= \frac{3}{4}x \Rightarrow \frac{13}{3} & \text{Focus on multiplication by } \frac{3}{4} \end{split}$$

We can get rid of \(\frac{1}{4}\) by dividing both sides by \(\frac{1}{4}\). Dividing by a fraction is the name as multiplying by the reciprocal, so we will multiply both sides by \(\frac{1}{4}\).

$$\left(\frac{4}{3}\right)_{4}^{3}s = \frac{13}{3}\left(\frac{4}{3}\right)$$
 Multiply by reciprocal $s = \frac{52}{3}$ Our solution!

While this process does help us arrive at the correct solution, the fractions can make the process quite difficult. This is why we have an alternate method for dealing with fractions - clearing fractions. Clearing fractions is nice as it gets rid of the fractions for the majority of the problem. We can easily clear the fractions by finding the LCD and multiplying each term by the LCD. This is shown in the next example, the same problem as our first example, but this time we will solve by clearing fractions.

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Ø,	$\tfrac{59}{7} \sim 9 + \tfrac{27}{7} + 2$	18.	$p = \frac{p}{h} - \frac{p}{h} = \frac{p}{h} = 10$
15.	$1-\frac{3}{2}s+2-\frac{7}{3}s$	26.	$y+\frac{3}{4}=\frac{7}{4}+\frac{7}{8}$
21.	7 - 1 - 5 - 5	21.	1.11.12.1
25.	3 -1 -1	24.	$\frac{57}{9}-\frac{3}{4}+\frac{1}{12}+\frac{57}{8}$
26.	$\tfrac{1}{3} s + \tfrac{3}{3} s = \tfrac{9}{35} s - \tfrac{1}{13}$	26	10-10-20
29.	056 - 52 × 64 + 63s	26.	0.20y - 0.25 + 0.40y + 0.00

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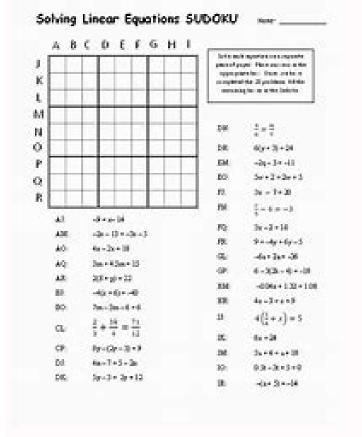
86 - 63c + 138 - 656 + 12

 $32. \quad 0.7 - 0.5s = 1.2s - 2.7$

28. 0.2x + 0.5 × 0.2x + 0

34, 0.2y = 0.3 = 0.4 = 0.5s

One Step Equations: Fractions 10 **** *** 2) **** *** 2) **** *** 4) *** 4) ** 4) *** 4) ** 4



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All of the answers are positive integers and the equations with Variables on Both Sides 2 RTF Solving Equations with Variables on Both Si Solving Equations with Variables on Both Sides 3- This 12 problem worksheet has equations that feature a mixture of addition and subtraction. You will encounter some negative as well, but I haven't thrown in any decimals yet. Here's an example of a typical problem: "5x + 8 = 4x - 4" Solving Equations with Variables on Both Sides 3 RTF Solving Equations with Variables on Both Sides 3 rDF Preview Solving Equations with Variables on Both Sides 3 in Your Browser View Answers

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