


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.

Often when solving linear 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 1.

$$\frac{3}{4}x - \frac{7}{2} = \frac{5}{6} \quad \text{Focus on subtraction}$$

$$\underline{+ \frac{7}{2} + \frac{7}{2}} \quad \text{Add } \frac{7}{2} \text{ to both sides}$$

Notice we will need to get a common denominator to add $\frac{3}{4} + \frac{7}{2}$. Notice we have a common denominator of 6. So we build up the denominator, $\frac{3}{4} \left(\frac{3}{3}\right) = \frac{9}{12}$, and we can now add the fractions:

$$\frac{3}{4}x - \frac{21}{6} = \frac{5}{6} \quad \text{Same problem, with common denominator 6}$$

$$\underline{+ \frac{21}{6} + \frac{21}{6}} \quad \text{Add } \frac{21}{6} \text{ to both sides}$$

$$\frac{3}{4}x = \frac{26}{6} \quad \text{Reduce } \frac{26}{6} \text{ to } \frac{13}{3}$$

$$\frac{3}{4}x = \frac{13}{3} \quad \text{Focus on multiplication by } \frac{4}{3}$$

We can get rid of $\frac{3}{4}$ by dividing both sides by $\frac{3}{4}$. Dividing by a fraction is the same as multiplying by the reciprocal, so we will multiply both sides by $\frac{4}{3}$.

$$\left(\frac{4}{3}\right)\frac{3}{4}x = \frac{13}{3}\left(\frac{4}{3}\right) \quad \text{Multiply by reciprocal}$$

$$x = \frac{52}{9} \quad \text{Our solution!}$$

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.

1

- | | |
|-------------------------|--------------------------|
| 1. $x - 1 = 5$ | 8. $1 = x + 3$ |
| 2. $1 + 1 = 0$ | 9. $4 = x + 1$ |
| 3. $x + 1 = 7 - 1$ | 10. $x + 1 = 7 - 1$ |
| 4. $1 = x + 7$ | 11. $7 = 1 + 7 - 1$ |
| 5. $1 + 1 = 1$ | 12. $7 = 1 + 7 - 1$ |
| 6. $7 = x + 7 + 1$ | 13. $x - 4 = 4 - 3$ |
| 7. $1 + 1 = 1 + 1$ | 14. $x + 1 = 1 + 1$ |
| 8. $7 + 1 = 7 + 7$ | 15. $1 + 1 = 7 + 1$ |
| 9. $7 + 1 = 1 + 1$ | 16. $7 - 1 = 7 + 7$ |
| 10. $1 + 1 = 7 + 7$ | 17. $1 + 1 + 1 = 7$ |
| 11. $0x - 32 = 0x - 32$ | 18. $0x - 0x = 0x - 0x$ |
| 12. $0x + 0x = 0x + 0$ | 19. $0x + 10x = 0x + 12$ |
| 13. $0x - 0x = 0x - 0x$ | 20. $0x - 0x = 12x - 27$ |

One Step Equations: Fractions

Solve for the variable.

1) $\frac{11x}{9} = 12$

7) $\frac{8x}{-43} = 10$

2) $\frac{2x}{11} = 10$

8) $\frac{2x}{12} = \frac{5}{20}$

3) $\frac{2x}{-12} = \frac{1}{4}$

9) $\frac{-20x}{100} = 24$

4) $\frac{2x}{12} = 10$

10) $\frac{x}{8} = \frac{2x}{22}$

5) $\frac{-2x}{22} = 10$

11) $\frac{2x}{24} = \frac{2}{10}$

6) $\frac{11x}{11} = 12$

12) $\frac{x}{-12} = \frac{-4}{10}$



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Solving Linear Equations SUDOKU

	A	B	C	D	E	F	G	H	I
J									
K									
L									
M									
N									
O									
P									
Q									
R									

Write each equation in slope-intercept form. Then solve the equation. Write the solution in the table.

AK	$-8 + 6 = 18$	KQ	$3x - 2 = 18$
AL	$-2x + 13 + 2x = 3$	KL	$3x - 4y - 12 = 0$
AO	$4x - 2 = 10$	OL	$-4x - 2x = 18$
AQ	$3x + 42x = 15$	OP	$4 - 32x - 6 = 10$
AR	$23 + 6t = 22$	OR	$-20x + 1.32 + 1.08$
BL	$-6x + 12 = -6$	BR	$4x + 3 = 9$
BO	$2x - 2x + 4 = 6$	BL	$4\left(\frac{1}{2} + x\right) = 5$
CL	$\frac{2}{3} + \frac{2x}{3} = \frac{7}{11}$	CL	$6x + 28$
CP	$2x + 2x = 3 + 9$	CM	$2x + 6 = 10$
DL	$4x + 1 = 3 - 2x$	CO	$0.9 - 3x + 3 = 0$
DL	$2x - 2 = 2x + 12$	DO	$-4x + 5 = 14$

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The Distributive Property is a great tool to help students simplify expressions and equations. The Distributive Property, while a simple concept for students to understand, often causes many simple mistakes when used in equations. Students frequently forget to distribute to all of the terms in an expression, or the presence of negative signs and subtraction signs confuse them. These free algebra worksheets are designed to alleviate these issues. At first students will practice using the distributive property with simple equations that contain addition and positive integers. As they work their way through the Solving Equations with The Distributive Property Worksheets set, students will become more confident working with subtraction and negative numbers. Like all of our worksheets at www.imathworksheets.com, these problems include answer keys, step-by-step examples, and plenty of space for students to show their work. Enjoy! Solving Equations with the Distributive Property 1 - This 12 problem worksheet is designed to introduce you to solving equations that have contain the Distributive Property. Only positive whole numbers are featured in the equations and all of the answers are positive as well. A few of the equations are two-step equations, but most are three-step equations similar to "4(3x + 2) = 68" Solving Equations with the Distributive Property 1 RTF Solving Equations with the Distributive Property 1 PDF Preview Solving Equations with the Distributive Property 1 in Your Browser View Answers Solving Equations with the Distributive Property 2 - This 12 problem worksheet is designed to introduce you to solving equations that contain the Distributive Property. All of these problems include subtraction in the equation, but students will only deal with positive numbers and positive answers. No fractions or decimals yet. The typical problem looks like this: "5(2x - 10) = 30". Solving Equations with the Distributive Property 2 RTF Solving Equations with the Distributive Property 2 PDF Preview Solving Equations with the Distributive Property 2 in Your Browser View Answers Solving Equations with the Distributive Property 3 - This 12 problem worksheet features some challenging equations. Some of the answers will be decimals, some will be negative, and some answers will be negative decimals. The examples should help guide you through the process of solving equations like "3(4x + 3) + 4 = 31". Solving Equations with the Distributive Property 3 RTF Solving Equations with the Distributive Property 3 PDF Preview Solving Equations with the Distributive Property 3 in Your Browser View Answers Would You Rather Listen to the Lesson? 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There is plenty of room on each worksheet to show all of your steps. Of course, answer keys are provided, but I always tell my students that equations are great because you can always check your own answers. You don't even need your teacher to find out if you have an 'A'! Solving Equations with Variables on Both Sides 1 - This 12 problem worksheet is designed to introduce you to solving equations that have variables on both sides. Only positive whole numbers are featured in the equations and all of the answers are positive as well. A few of the equations are two-step equations, but most are three-step equations similar to "20 + 2x = x + 56" Solving Equations with Variables on Both Sides 1 RTF Solving Equations with Variables on Both Sides 1 PDF Preview Solving Equations with Variables on Both Sides 1 in Your Browser View Answers Solving Equations with Variables on Both Sides 2 - This 12 problem worksheet includes equations that focus primarily on subtraction. If students isolate the variable on the left side of the equations, then they will avoid having to use negative numbers. Examples are shown to help guide students through the process. All of the answers are positive integers and the equations are similar to "8x - 88 = 2x - 34" Solving Equations with Variables on Both Sides 2 RTF Solving Equations with Variables on Both Sides 2 PDF Preview Solving Equations with Variables on Both Sides 2 in Your Browser View Answers 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 integers as you "undo" these equations. Some of the answers will be 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 PDF Preview Solving Equations with Variables on Both Sides 3 in Your Browser View Answers

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