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MULTI- STEP EQUATIONS

Write the letter of the correct answer.

- To solve $4x - 3 = 5$, first
 - add 3 to each side.
 - add -3 to each side.
 - multiply each side by 3.
 - multiply each side by -3.
- To solve $2(x + 3) = 2$, first
 - add -3 to each side.
 - multiply each side by 2.
 - use the Subtraction Property.
 - use the Distributive Property.
- Which equation is equivalent to $3x + 8 = -4$?
 - $3x = 4$
 - $3x = -12$
 - $3x = 12$
 - $3x = -4$
- Which expression is equivalent to $-(x - 3)$?
 - $-x - 3$
 - $-x + 3$
 - $x + 3$
 - $x - 3$

Rewrite each expression as a sum or difference.

- $2(x - 7)$ _____
- $-3(x + 2)$ _____
- $-5(x - 1)$ _____
- $(4x + 3) - x$ _____

Solve and check.

- $2(y - 3) = 4$ _____
- $3(x + 4) = 33$ _____
- $5(a - 6) = 10$ _____
- $8(b + 3) = -16$ _____
- $-36 = 3(c - 5)$ _____
- $8 = -4(d + 6)$ _____
- $2e + 3(e + 3) = -11$ _____
- $4(f - 2) + f = -8$ _____
- $6g - (g + 7) = 8$ _____
- $-3(h - 2) + 4h = 9$ _____
- $4(j - 2) + 3(j - 1) = 17$ _____
- $5(k - 1) - 3(k + 2) = -13$ _____

under notice appearing earlier in this work.

One-Step Equations With Fractions

Solve each equation.

- $x + \frac{1}{2} = 3$
- $x - \frac{3}{4} = 2$
- $x - \frac{1}{3} = 1$
- $x + \frac{2}{5} = \frac{1}{2}$
- $x - \frac{1}{6} = \frac{1}{3}$

Two-Step Equations With Integers

Name _____
Period _____

Solve each equation.

- $\frac{x}{10} + 4 = 5$
- $\frac{m}{2} + 5 = 3$
- $3p - 2 = -29$
- $1 - r = -5$
- $\frac{k - 10}{2} = -7$
- $\frac{m - 5}{2} = 5$
- $-9 + \frac{n}{4} = -7$
- $\frac{2 + m}{3} = 2$
- $\frac{-5 + x}{22} = -1$
- $4a - 9 = -9$
- $\frac{x + 9}{2} = 3$
- $\frac{-12 + x}{11} = -3$
- $\frac{-4 + x}{2} = 6$
- $-5 + \frac{n}{3} = 0$

General Algebra II
Tools of Algebra Unit

Name _____
Period _____ Date _____

Worksheet 1-3 ~ Solve Equations

Solve the following equations. Check your answers.

- $7w + 2 = 3w + 94$
- $15 - g = 23 - 2g$
- $4y - 6 = 2y + 8$
- $3x - 7 = 2x + 2$
- $2 - 8g = -2g + 5$
- $-5y + 4 = 7y - 8$
- $2t - 3 = 9 - 4t$
- $8z + 12 = 5z - 21$
- $2(y - 3) + 6 = 70$
- $6(r - 2) = 20 - 2r$
- $2x - 5 = 17$
- $3(2t + 1) = 35$
- $t - 2(3 - 2t) = 2t + 9$
- $5(x - 12) - 24 = 3(x + 2)$
- $7(3 - 0.5k) = 3k - 5$
- $\frac{x + 5}{3} = 4$

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Two-Step Equations With Integers

Name _____

Date _____ Period _____

Solve each equation.

1) $\frac{x}{10} + 4 = 5$ 2) $\frac{x}{2} + 3 = 3$

3) $3p - 2 = -29$ 4) $1 - r = -5$

5) $\frac{t - 10}{2} = -7$ 6) $\frac{n - 5}{2} = 5$

7) $-9 + \frac{x}{4} = -7$ 8) $\frac{9 + x}{j} = 2$

9) $\frac{-3 + a}{22} = -1$ 10) $4n - 9 = -9$

11) $\frac{x + 9}{2} = 3$ 12) $\frac{-12 + x}{11} = -3$

13) $\frac{-4 + z}{2} = 6$ 14) $-5 + \frac{p}{3} = 0$

Multi step linear equations worksheet answers. How to solve multi step linear equations. Solving multi step linear equations worksheet. Multi step linear equations with fractions worksheet. Multi step linear equations examples. Multi step linear equations word problems worksheet.

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They can be simple or really hard to do, since there are no limitations on the number of steps you have to perform to get to a solution. But one thing is certain - they require all the knowledge you gained by solving one-step equations and two-step equations. Because this is a bit more complicated, we will show you how to solve multi-step equations on two examples. The first example is a fairly simple multi-step equation with integers that has a variable on both sides of the equation. $n + 2 = -4 + 2n$ The first thing we have to do here is to get all the variables on one side and all the numbers on the other. It does not matter on which ones you put on the right side of the equation and which ones on the left - you will still get the same result in the end. But in this case, we will save ourselves a bit of effort if we put the variables on the right side. $2 + 4 = 2n - n$ Now we perform the calculations and get... $6 = n$ This was easy, was it not? By making a smart choice in the beginning, we made the equation easier to solve. Otherwise, we would have to perform an additional operation. Like this: $n + 2 = -4 + 2n$ $n - 2n = -4 - 2$ $-n = -6$ $(-1)n = 6$ It does not seem like a big deal now, but thinking and a bit of planning instead of automatic solving can help you a lot when dealing with some multi-step equations. Now, let us try to solve a more complicated equation. An equation like this one: $6n - 3(-3n + 2) = -24 + 6n$ This equation requires us to perform a distribution, so we will do that first. That means we have to multiply each element between the brackets with the number in front of the brackets, or in this case "-3". $6n - 3(-3n) + (-3)2 = -24 + 6n$ When we clean that up a bit, we get: $6n + 9n - 6 = -24 + 6n$ Now we will move the variables to the left side and the numbers to the right side. $6n + 9n - 6n = -24 + 6$ When we perform the additions and subtractions, we get: $9n = -18$ All that is left to do now is to divide the whole equation by 9 and... $9n = -18$ $(9)n = 2$...we found the solution. If you want to practice solving multi-step equations some more, use the free worksheets below. 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The 7m and the -2m will combine to be a 5m and the -5 and the +2 will combine to become -3. $12 = 5m - 3$ Now, add 3 to both sides. $+3 + 3. 15 = 5m$ Divide both sides by 5. $5. 5. 3 = m$. These multi-step equations can get a bit long and difficult. Sometimes, ... Multi-step equations worksheets are simple and easy to work with. Students can download the PDF format of these worksheets to practice at their own pace. Multi-Step Equation Worksheet - 1. Download PDF. Multi-Step Equation Worksheet - 2. Download PDF. Multi-Step Equation Worksheet - 3. Download PDF. 28/09/2018 · Multi step equations with fractions worksheets kuta solving free printable math radical edboost proportions linear form ax c b algebra worksheet graphing lesson 6 2 4 distributive property 7th grade mathematics distance learning packet maze activities 1 coach and decimals homework help research paper assistance Multi Step Equations With Fractions ... 01/11/2021 · Get Free Multi Step Math Equations Worksheets. 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Answer: The 7m and the -2m will combine to be a 5m and the -5 and the +2 will combine to become -3. $12 = 5m - 3$ Now, add 3 to both sides. $+3 + 3. 15 = 5m$ Divide both sides by 5. $5. 5. 3 = m$. These multi-step equations can get a bit long and difficult. Sometimes, ... 29/10/2021 · Multi-step Equations Worksheet - Expressions and Equations Worksheets are designed to help kids learn faster and more effectively. These worksheets are interactive as well as problems dependent on the order in which operations are performed. These worksheets are designed to make it easier for children to master complex concepts as well as simple concepts ... Solve Equations With Like Terms: Level 1. Worksheet. Solutions to Linear Equations. Worksheet. Multi-Step Equations: Crack the Code. Worksheet. Solve Equations With Variables on Both Sides. Worksheet. Solve Equations With Like Terms: Level 2. Multi step linear equations worksheet. 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