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To get the PDF worksheet, simply push the button titled "Create PDF" or "Make PDF worksheet". To get the worksheet in html format, push the button "View in browser" or "Make html worksheet". This has the advantage that you can save the worksheet directly from your browser (choose File → Save) and then edit it in Word or other word processing program. Sometimes the generated worksheet is not exactly what you want. Just try again! To get a different worksheet using the same options: PDF format: come back to this page and push the button again. HTML format: simply refresh the worksheet page in your browser window. Ready-made worksheets See also Worksheets for simplifying expressions Worksheets for evaluating expressions with variables Worksheets for writing expressions with variables from verbal expressions Worksheets for linear inequalities Welcome to our solving one-step equations worksheet review! In the event that you or your students are having a hard time solving any of the problems on our solving one step equations worksheets, this quick review will teach you everything you need to know about how to solve a one-step algebraic equation. Before we get to any practice problems, it is imperative that you understand two things when it comes to solving a one-step algebraic equation: The goal of solving any algebraic equation is to get the variable by itself on one side of the equals sign. You can achieve this goal of isolating the variable by rearranging the equation by using inverse operations. As long as you understand those two main points, then you can learn how to solve any one-step algebraic equation with relative ease. Now, let's dive deeper into point #2. What does it mean when we say that we can isolate the variable by using inverse operations? In math, there are four main operations: addition, subtraction, multiplication, and division, and each operation has an inverse, or opposite. First, let's focus on the fact that addition and subtraction are inverses of each other. In other words: addition is the inverse of subtraction subtraction is the inverse of addition For example, the inverse of adding 3 to a number is subtracting 3 from the number. Next, we have multiplication and division, which are, in fact, inverses of each other. In other words: multiplication is the inverse of division division is the inverse of multiplication For example, the inverse of multiplying a number by 8 is dividing the number by 8. Inverse operations can be used to rearrange an equation and to "cancel out" terms, which is incredibly useful since the goal of solving an algebraic equation is to isolate the variable (i.e. get the variable by itself). Now, let's take a look at a few examples of how to solve a one-step equation. Solving One-Step Equations Example #1 Example: Solve for x:  $x + 8 = 10$  For this first example, our goal is to get the variable, x, by itself, and we can use inverse operations to do that. In this case, we can get x by itself by taking the +8 term and moving it to the right side of the equation. The opposite of +8 is -8, so we just have to subtract 8 from both sides of the equation to isolate x as follows:  $x + 8 = 10$   $x + 8 - 8 = 10 - 8$   $x = 2$  Final Answer:  $x = 2$  is the solution to the one-step equation  $x + 8 = 10$ . How do we know that our final is correct? Whenever you solve a one-step equation, you should always check your answer ( $x = 2$  in this case) by substituting it back into the original equation to see if the left and right-sides of the equation equal the same value (which validates that your answer is correct).  $x + 8 = 10$   $(2) + 8 = 10$   $10 = 10$  ✓ Clearly, our answer has worked out and we can say that  $x = 2$  is the answer. This segment has an endless collection of equation worksheets based on solving one-step, two-step and multi-step equations; rearranging literal equations, writing the equation of a line in various forms; graphing linear equation and more. High-school topics such as quadratic equation, absolute value equation and systems of equations are also featured here. Practice solving the equations by using the various download options available. A number of free printable worksheets are also up for grabs! One-step equation worksheets This set of worksheets requires students to solve one-step equations involving integers, fractions and decimals by performing addition, subtraction, multiplication or division operations. It also contains math riddles, finding the cost of the objects, translating the phrases into one-step equation and more. Two-step equation worksheets Click on the link to access exclusive worksheets on solving two-step equations that include integers, fractions and decimals. 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