

Inductive reasoning worksheet with answers

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A proportion is a set of 2 fractions that equal each other. This article focuses on how to use proportions to solve real life problems. Modifying a budget for a restaurant chain that is expanding from 3 locations to 20 locations Creating a skyscraper from blueprints Calculating tips, commissions, and sales tax On Monday, you are cooking enough white rice to serve exactly 3 people. The recipe calls for 2 cups of water and 1 cup of dry rice. On Sunday, you are going to serve rice to 12 people. How would the recipe change? If you've ever made rice, you know that this ratio—1 part dry rice and 2 parts water—is important. Mess it up, and you'll be scooping a gummy mess on top of your guests' crawfish étouffée. Because you are quadrupling your guest list (3 people * 4 = 12 people), you must quadruple your recipe. Cook 8 cups of water and 4 cups of dry rice. These shifts in a recipe demonstrate the heart of proportions: using a ratio to accommodate life's greater and smaller changes. Sure, with the right numbers, you can forgo setting up an algebraic equation to determine the amounts of dry rice and water. What happens when the numbers are not so friendly, however? On Thanksgiving, you'll be serving rice to 25 people. Because the ratio of 2 parts water and 1 part dry rice applies to cooking 25 servings of rice, use a proportion to determine the quantity of ingredients. Note: Translating a word problem into an equation is super important. Yes, you can solve an incorrectly set up equation and find an answer. You can also mix rice and water together to create "food" to serve at Thanksgiving. Whether the answer or food is palatable depends on the equation. Think about what you know: 3 servings of cooked rice = 2 cups of water; 1 cup of dry rice25 servings of cooked rice = ? cups of water; ? cup of dry rice3 servings of cooked rice/25 servings of cooked rice = 2 cups of water/x cups of water/3/25 = 2/x Cross multiply. Hint: Write these fractions vertically to get the full understanding of cross multiplying. To cross multiply, take the first fraction's numerator and multiply it by the second fraction's denominator. Then take the second fraction's numerator and multiply it by the first fraction's denominator. 3 * x = 2 * 253x = 50Divide both sides of the equation by 3 to solve for x.3x/3 = 50/3x = 16.6667 cups of waterFreeze- verify that the answer is correct.Is 3/25 = 2/16.6667?3/25 = .122/16.6667 = .12Whooh hoo! The answer 16.6667 cups of water is correct. Damian is making brownies to serve at the family picnic. If the recipe calls for 2 ½ cups of cocoa to serve 4 people, how many cups will he need if there will be 60 people at the picnic? 37.5 cups What do you know?2 ½ cups = 4 people? cups = 60 people2 ½ cups/x cups = 4 people/60 people2 ½/x = 4/60Cross Multiply.2 ½ * 60 = 4 * x150 = 4xDivide both sides by 4 to solve for x.150/4 = 4x/437.5 = x37.5 cups Use common sense to verify that the answer is correct.The initial recipe serves 4 people and is modified to serve 60 people. Of course, the new recipe has to serve 15 times more people. Therefore, the amount of cocoa has to be multiplied by 15. Is 2 ½ * 15 = 37.5? Yes. A piglet can gain 3 pounds in 36 hours. If this rate continues, the pig will reach 18 pounds in 216 hours. What do you know?3 pounds = 36 hours18 pounds = ? hours3 pounds/18 pounds = 36 hours/ ? hours3/18 = 36/x Cross Multiply.3 * x = 36 * 183x = 648 Divide both sides by 3 to solve for x.3x/3 = 648/3x = 216216 hours Use common sense to verify that the answer is correct.A piglet can gain 3 pounds = ? days70 pounds = 80 days87.5 pounds = ? days70 pounds/87.5 pounds = 80 days/x days70/87.5 = 80/x Cross Multiply.70 * x = 80 * 87.570x = 7000 Divide both sides by 70 to solve for x.70x/70 = 7000/70x = 100 Use Algebra to verify the answer.Is 70/87.5 = 80/100?70/87.5 = .880/100 = .8 Jessica drives 130 miles every two hours. If this rate continues, how long will it take her to drive 1,000 miles? 15.38 hours What do you know?130 miles = 2 hours1,000 miles = ? hours130 miles/1,000 miles = 2 hours/? hours130/1000 = 2/x Cross Multiply.130 * x = 2 * 1000130x = 2000 Divide both sides of the equation by 130 to solve for x.130x/130 = 2000/130x = 15.38 hours Use Algebra to verify the answer.Does 130/1000 = 2/15.38?130/1000 = .132/15.38 is approximately .13 Calculating simple interest is an essential skill for anyone who maintains a bank account, carries a credit card balance, or applies for a loan. The free printable worksheets in this lesson will improve your homeschool math lessons and help your students become better at calculations. This collection of worksheets will also help students understand the process using word problems. Answers are provided for each of the five worksheets on the second page for ease of grading. Before having students start on the worksheets, explain that when you borrow money, you have to repay the amount you borrowed as well as any added interest charges, which represents the cost of borrowing. In the same way, explain to students that when you lend money or deposit funds in interest-bearing accounts, you typically earn interest income for making your money available to other people. D. Russell Print the PDF: Simple Interest Worksheet No. 1 In this exercise, students will answer 10 word problems about calculating interest. These exercises will help homeschoolers learn how to calculate the rate of return on investments and illustrate how interest can accrue over time. Students will answer such questions as, "How much interest does a \$318 investment earn at 9 percent over one year?" Explain to students that the answer would be \$28.62 because \$318 x 9 percent is the same as \$318 x 0.09, which equals \$28.62. Explain to students that they would have to pay this amount of interest in addition to repaying the principal, the amount of the original loan, \$318. D. Russell Print the PDF: Simple Interest Worksheet No. 2 These 10 questions will reinforce the lessons from worksheet No. 1. Homeschoolers and other students will learn how to calculate rates and determine interest payments. For this PDF, students will answer word problem questions such as: "If the balance at the end of eight years on an investment of \$630 that has been invested at a rate of 9 percent is \$1,083.60, how much was the interest?" If students are struggling, explain that calculating this answer involves only simple subtraction, where you subtract the initial investment of \$630 from the ending balance of \$1,083.60. Students would set up the problem as follows: \$1,083.60 - \$630 = \$453.60 Explain that some of the information in the question was extraneous and not necessary to solve the problem. For this problem, you don't need to know the years of the loan (eight years) or even the interest rate; you only need to know the beginning and ending balance. D. Russell Print the PDF: Simple Interest Worksheet No. 3 Use these word questions to continue practicing how to calculate simple interest. Students can also use this exercise to learn about the principal, rate of return (the net gain or loss on an investment over a specified time), and other terms commonly used in finance. D. Russell Print the PDF: Simple Interest Worksheet No. 4 Teach your students the basics of investing and how to determine which investments will pay the most over time. This worksheet will help your homeschoolers polish their calculating skills. D. Russell Print the PDF: Simple Interest Worksheet No. 5 Use this final worksheet to review the steps for calculating simple interest. Take time to answer questions your homeschoolers may have about how banks and investors use interest calculations. Quadratic Formula. D.Russell Use the Quadratic Formula to Solve the Equations(Answers on 2nd page of PDF. Sample questions are: 1.) 2x2 = 98 2.) 4x2 + 2x = 42 3.) x2 = 90 - 2x 4.) x2+2x = 63 5.) 5n2 - 15 = 10n 6.) 2x2 = 44 + 3x 7.) 4x2 - 10x = 84 8.) x2 - 16 = -6x 9.) x2 = 36 10.) x2 -4x = 96 Each worksheet is in PDF for quick printing. Note that the answers are found on the second page of the PDF. Although there are other methods to solve quadratic equations (factoring, graphing, completing the square) it is important to use efficiency, hence you are asked to use the quadratic formula to solve these questions. However, there are other worksheets that require you to complete the square, factor and graphing. It's important to be able to use the various methods so that you will eventually be able to use the most efficient method. After all, algorithms in math were developed to increase efficiency. Long ago, a teacher reminded me in a jokingly way that mathematicians are lazy, hence let's find all the shortcuts possible.

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