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7.5 problem solving geometry answer key

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More than a stop source for a deep understanding of physics-based concepts New math lessons email is safe with us. We will only use it to inform you about new math lessons. To continue to benefit from our site, we ask that you confirm your identity as a person. Thank you so much for your cooperation. Detailed solutions offer a few percent word problems. The problem was 1 One shirt original price was \$20. That's \$15 reduced. What is the percentage decrease in the price of this shirt. Problem e solution 1My drop percentage drop absolute decrease original price (part/whole), percent death = 5 / 20 = 0.25 Multiplied and 25 percent percent percent = 0.25 = 0.25 = 0.25 = 0.25 = 0.25 * 100 / 100 = 25 / 100 = 25% Problem 2Mary 1200 \$ monthly salary is divided. He spends \$280 a month on food. What percentage of his monthly salary does he spend on food? Problem Solution 2Sped part of the problem 1200percent \$ its monthly salary is \$280 = part / whole = 280 / 1200 = 0.23 (2 decimal places) Multiply and percentage = 0.23 * 100 / 100 = 23 / 100 = 23% Problem 3Pantolon a double price reduced by 22% by 30% multiplied and divided by 100. What was the original price of the pants? Problem 3Let x original price and y solution to be absolute fall. If the price is reduced to \$30, byy = is given in the equation x = (22 / 100) * x = 0.22 xX = X - y = 30, and the original price is resolved for x.x - 0.22 x = 3 Check the solution to this problem by reducing the price of 00.78 x = 30x = 38.50riginal 38.5 \$ 22% found and see 30.Problem 4 Returns that the price of an item has been changed from \$120 to \$100. Then the price dropped again from \$100 to \$80. Which of these two declines was larger in percentages? Solution to the Problem 4Th down by a percentage / whole = (120 - 100) / 120 = 0.17 = 17% Percentage Parts / 17% Second reduction in the whole = (100 - 80) / 100 = 0.20 = 20% The second decrease was greater in the percentage term. The piece was the same in both cases, but smaller in the whole second fall. Problem 5 The price of an item decreased by 20% for \$200. Then the price dropped again from \$200 to \$150. What is the percentage of the decrease in the final price of \$150 from the original price? Solution to Problem 5 First we need to find the original price x. First drop givesx - 20% x = 2000.8 x = 200x = 200 / 0.8 = 250 Percent reduction fro original price 250-150 = (250 - 150) / 250 = 0.4 = 40% Problem 6A number increases from 30 to 40 and then decreases from 40 to 30. Compare the percentage of increases from 30 to 40 and compare the decrease from 40 to 30. 60 percent increase from solution to problem is given from 30 to 40 (40 - 30) / 30 = 10 / 30 = 0.33 % = 33% (2 important steps)Percentage decrease 40 -30) / 40 = 0.25 % = 25% absolute term, percentage reduction percentage increase is less. The problem was that the 7A family had dinner at a restaurant and paid \$30 for food. They also had to pay 9.5% sales tax and 10% for tips. How much did they pay for dinner? Solution Problem 7Onlar paid for food, sales tax and tip, hence total paid = \$30 + 9.5% * 30 + 10% * 30 = 35.85Problem 8A shop shirt offers every cost reduction of \$20. If someone buys 2 shirts, they will be offered a 15% discount on the first shirt and another 10% discount on the discounted price for the second shirt. How much will be paid for two shirts in this store? Problem e solution 8 Discounted price for first shirt Discounted price for first shirt. The 10% discount will already be the discounted price, so the second shirt price is given by 17 - 10% * 17 = \$15.3 the total cost for two shirts is17 + 15.3 = \$ 32.3Problem 9Smith \$5,000 for two years. The interest rate in the first year was 7% and the second year was 8.5%. Solution to Problem 9Interest At the end of the first yearFaiz invests 8.5% * (5000 + 350) at the end of the second year = \$454.75 Total interest at the end of the two-year period \$350 + \$454.75 = \$804.75Problem 10Janette invests \$2000 as an annual 5% compound for 5 years. How much interest did he make at the end of the 5-year period? Problem 10Th year, principal p1 = 2000 + 5% * 2000 = 2000 =2000(1 + 5%) second year, p1p2 = P1 + 5% * P1 = P1 =P1(1 + 5%)Substitute P1 by 2000(1 + 5%) interest. findP2 = 2000 * (1% + 5%) for 2This process can be easily shown, continuing with this process, which can be easily shown that at the end of 5 years, the principal byP5 = 2000 * (1% + 5%) is issued 5= 2000 * (1 + 0.05) = \$2552.565 interest earned at the end of the year \$2552.56 - \$2000 = \$552.56Problem 11Tom 10% per year , simple interest, borrowed \$600 for 3 years. How much remnal (principal + interest) was he required to pay at the end of the 3-year period? Solution to Problem 11The interest to be given by TheFaiz = 600 % * 10 % * 3 = \$180 For a total refund600 + 180 = \$780Problem 12 Outside a world population of about 6.6 billion, in the richer countries of Europe, North America, Japan and Oceanics, 1.2 billion people live and grow by 0.25% a year, while another 5.4 billion live in developed countries and grow by 1.5%. Assuming these rate of increase remains stable for the next 5 years, what about the world's population in 5 years? (Round answer for 3 important digits) Solution to Problem 12 Lets first calculate the PR population in richer countries within 5 yearsPR = (1.2 % + 0.25% * 1.2%) = 1.2(1 + 0.25%) a year laterPR = 1.2(1 + 0.25%) + 0.25% * 1.2(1 + 0.25%)= 1.2(1 + 0.25%)2 After two years above and continue after 5 years, pr will = 1.2(1 + 0.25%) After 5 years 5Benzer calculations 5 years.PL = 5.4(1 + 1.5%) after 5 years the population in underdeveloped countries can be used to find PL 5 years after 5 world population P 5 years after beP = PR + PL = 1.2(1 + 0.25%) 5 + 5.4(1 + 1.5%) 5 = 7.03 billion. The problem is that 13Cassandra invests 7.5% a year and the other part invests 8.5% a year in part of her \$10.000. His income from the two investments was more than \$820. How much did he invest in each price? Problem 13Let x and y amount to be 7.5% and 8.5% investment respectivelyNation = \$820 = 7.5% * x + 8.5% * yY The amount is also known to solve the system x equations to find and y.As an application control \$3000 and \$7000 gives 8.5% \$820.Problem 14A shop assistant monthly salary is the sum of S \$500 plus 5% salary of all monthly sales. What should be monthly sales in order to reach 1500 TL per month salary? Solution Solution S has a total monthly salary and x monthly sales, so s = 1500, hence 1500 = 500 + 5% * x = 500 + 0.05 xSolve xx = (1500 - 500) / 0.05 = 20000Problem 15A chemist has 20% and 40% acid solutions so find x. How much of each solution should be used to make 300 ml of the 28% acid solution? Problem 15The solution is x solution at 20%, be the solution at 40%, so we now write an equation that expresses what percentage of the total area of the last 300 ml total acid x and y28% * 300 = 20% * x + 40% * yfindx = 180 and y = 120Problem 16daireaire disk is in red color? Problem16DiskAd total area = pi * r 2 Red sectoral mid-angle radians t = (360-120)* pi / 180 = (4/3) pi Red sector area = (1/2) t * r 2 RedPPercentage of total field in = [(1/2) t * r 2] / [pi * r 2] = 4 / 6 = 66.7% (3 important digits)THINK: compare 66.7% 240 / 360, why equal? Problem 17A 6 percent of the total area of the index is red? Problem17To the rectangular areaTo the rectangular areaAt = L * WArea of triangleAt = (1/2) base * height = (1/2) [L * (1/2) W] RedP percentage of the field = (1/2) [L * (1/2) W] / [L*W] = 1/4= 25% More References and 100% Calculator and SolverPercentFractionsreport report this ad

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