Sixth grade math word problems with answers

Sandy Huffaker/Getty Images Solution math problems can intimidate sixth-graders, but it shouldn't. Using a few simple formulas and a little logic can help students quickly calculate responses to seemingly intractable problems. Explain to students that you can find the rate (or speed) that someone is travelling if you know the distance and time she has travelled. Cont others, if you know the speed (rate) that a person travels as well as the distance, you can calculate the time he travelled. You simply use the basic formula: rate times the time equal distance, or r* t = d (true * is the symbol for multiplication.) The free, printable worksheets below involve problems like this, as well as other important issues, such as determining the biggest general factor, calculating percentages and more. The answers for each worksheet are provided in the following slide just after each worksheet. Let students work the problems, fill in their answers in the provided empty spaces, and then explain how they'll get to the solutions to questions where they're struggling. The worksheets provide a good and simple way to do quick formative assessments for an entire math class. Print PDF: Worksheet No 1 On this PDF your students will solve problems such as: Your brother traveled 117 miles in 2.25 hours to come home for school breaks. What's the average speed he's traveled? and You have 15 meters of ribbon for your gift boxes. Each box gets the same amount of ribbon. How much ribbon will each get from your 20 gift boxes? Print Solutions PDF: Worksheet No. 1 Solutions To resolve the first comparison on the worksheet, use the basic formula: rate times the time = distance, or r*t = d. In this case, r = the unknown variable, t = 2.25 hours, and d = 117 miles. Isolate the variable by dividing r from each side of the equation to consolate the revised formula, r=t ÷ d. Plug in the numbers to get: r = 117 ÷ 2.25, which is r = 52 mph. For the second problem, you don't even need to use a formula - just basic math and some common sense. The problem involves simple section: 15 gauge ribbon divided by 20 boxes, can be shortened if 15 ÷ 20 = 0.75. So each box gets 0.75 meters ribbon. Print PDF: Worksheet No. 2 On worksheet No. 2, students solve problems that involve a little logic and a knowledge of factors, such as: I think of two numbers, 12, and another number. 12 and my other number has a biggest general factor of 6 and their least common multiple is 36. What's the other number I'm thinking of? Other problems require only a basic knowledge of percentages, as well as how to convert percentages to decimals, such as: Jasmine has 50 marbles in a bag. 20% of the marbles are blue. How many marbles are blue? Print PDF Solutions: Worksheet No. 2 Solution For the first problem on this worksheet, you should know that the factors are of 12 1, 2, 3, 4, 6 and 12; and the multiples of 12 are 24, 36. (You stop at 36 because the problem says this number is the least common multiple.) Let's choose 6 as a possible largest common multiple because it's the biggest factor of 12 other than 12. The multiples of 6 are 6, 12, 18, 24, 30 and 36. Six can go into 36 (6 x 6) six times, 12 can go three times in 36 (12 x 3), and 18 can go twice in 36 (18 x 2), but 24 can't. Therefore, the answer is 18, since 18 is the largest common multiple that can go in 36. For the second answer, the solution is simpler: First, convert 20% to get to a decimal to 0.20. Then multiply the number of marbles (50) by 0.20. You will set up the issue as follows: 0.20 x 50 marbles = 10 blue marbles. The following are some examples of 6th Grade Math Word problems that deal with relationship and relationships. The word problems are solved using tape diagrams, block diagrams or bar model (Singapore Math) Related Topics: More Math Word Problems Algebra Word Problems More Singapore Math Word Problems Example: Mark and Fred have some money in the ratio 6:1. Mark gave half his money to Fred. Find the proportion of the amount of money Mark left to the amount of money Fred ended up having. Solution: Before after the proportion of the amount of money Mark left to the amount of money Fred ended up having is 3:4. Example: Carol put some green and red unit cubes in a box. The ratio of the number of green cubes to the number of red cubes is 2:1. She adds 12 more red cubes in the box and the ratio becomes 4:5. a) How many green cubes are there in the box? b) How many red cubes does Carol have in the end? Solution: Before after the model we see it: a) 3 units = 12 cubes 1 unit = 12 ÷3 = 4 cubes 4 units = 4 × 4 = 16 cubes There are 16 green cubes in the box. b) 5 units = 5 × 4 = 20 cubes of Carol has 20 red cubes in the end. How to solve relationship word problems? Examples: 1. A plate is cut into two pieces, the lengths of which are in the ratio of 2:5. The longest stretch was 85 inches. How long was the shortest piece? 2. At a track meeting, 5/8 of the students were boys. There were 48 more boys. How many students were completely there? 3. Theresa read two and one-fourth times as many pages on Saturday as on Sunday. She read 120 pages more on Saturday. How many pages did she read completely? Show Step-by-Step Solutions How to Solve More Difficult Relationship Word Problems? Examples: 1. The ratio of pigs to cows to sheep on the farm is 2:4:7. There are 65 more sheep than pigs. How many cows are there on the farm? 2. Archimedes, Hypatia and Zeno shared a sum of money. Archimedes received 1/6 of the money. Hypatia and Zeno shared the rest of the money in the relationship 2:3. Zeno has $7 more than Hypatia. How much money did they share entirely? 3. One-third of Elmer's age is the same as two-fifths of Sam's a) Draw a bar model that is the situation b) Elmer is 5 years older than Sam. How old is Sam? Show Step-by-Step Solutions How to Use Relationships to Solve Relationship Problems? 1. At Al's Catering Service, they often make a large group of fruit salad. fruit salad. ratio of cups of apples to cups of oranges in the recipe is 8 : 5. a) If they use 15 cups of oranges, how many cups of apples should they use? b) If they only use 2 cups of apples, how many cups of oranges should they use? Show Step-by-step Solutions Try the free Mathway calculator and problem solver below to practice multiple math topics. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. We welcome your feedback, comments and questions about this website or page. Please submit your feedback or inquiries via our Feedback page. Sixth Grade! Almost ready for Middle School! But that doesn't mean it's the end of maths practice, no indeed. These sixth-grade math worksheets cover most of the core math topics previous grades, including conversion worksheets, meting worksheets, average, median and series worksheets, number of patterns, econcents and a variety of topics expressed as word problems. Students in 6th grade should have excellent mastery of their math facts and be able to complete timely addition, deduction, multiplication and division tests quickly and with almost perfect accuracy. Students in 6th grade should also be comfortable with fractions, and the topics converged on the fractional worksheets on this page should be known. With confidence in these math topics, students in the 6th grade should be ready for pre-algebra as they move on to the next part of their discovery of math. Grade 6 math word problems with answers are presented. Some of these problems are challenging and need more time to solve. Also detailed solutions and full explanations are included. Two numbers N and 16 have LCM = 48 and GCF = 8. Finding N.If the area of a circle is 81pi square feet, find its perimeter. Finding the biggest general factor of 24, 40 and 60.In a given school, there are 240 boys and 260 girls.a) What is the proportion of the number of girls to the number of boys?b) What is the proportion of the number of boys to the total number of pupils in school? If Tim had lunch at $50.50 and he gave 20% tip, how much did he spend? Find k if 64 ÷ k = 4.Little John has $8.50. He spended $1.25 on sweets and gave his two friends $1.20 each. How much money is left? What is x if x + 2y = 10 and y = 3? A phone company initially charges $0.50 and then $0.11 for each minute. Write an expression that gives the cost of a call that lasts N minutes. A car gets 40 kilometres per gallon of gasoline. How much gallons of gasoline will the car have to travel 180 kilometres? A machine fills 150 bottles of water every 8 minutes. How many minutes does it take this machine to fill 675 bottles? A car travels at speeds of 65 miles per hour.

How far will it travel in 5 hours? A small square of side 2x is emanated from the corner of a rectangle with a width of 10 centimeters and length of 20 centimeters. Writes an expression in terms of x for the area of the remaining form. A rectangle A with length 10 centimeters and width is 5 centimeters to another rectangle B whose length is 30 centimeters. Find the area of rectangle B.A school has 10 classes with the same number of students in each class. One day the weather was bad and many students were absent. 5 classes were half full, 3 classes were 3/4 full and 2 classes were 1/8 empty. A total of 70 students were absent. How many students are in this school when no students are absent? A large square is made of 16 congruent squares. What is the total number of squares of different sizes is there?. The perimeter of square A is 3 times the perimeter of square B. What is the proportion of the area from square A to the territory of square B.John gave half of its stamps to Jim. Jim gave half of his stamps to Carla. Carla gave 1/4 of the stamps to her given to Thomas and held the remaining 12. How many stamps did John start? Two balls A and B turn along a circular track. Ball A makes 4 full rotations in 120 seconds. Ball B makes 3 full rotation in 60 seconds. If they start turning from the same point now, when will they be at the same starting point again? A segment is 3 units long. It is divided into 9 parts. What fraction of a unit are 2 parts of the segment? Mary wants to make a box. She begins with a piece of cardboard whose length is 15 centimeters and width is 10 centimeters. Then she cut 4 congruent squares with sides of 3 centimeters at the four corners and folded at the broken lines to make the box. What is the volume of the box? . A car travels 75 kilometres per hour. How many metres does the car travel in one minute? Carla is 5 years old and Jim is 13 years younger than Peter. A year ago, Peter's age was twice the sum of Carla's & Jim's age. Find the current age of each of them. Linda has 3/4 of her savings on furniture. She then paid 1/2 of her remaining savings on a fridge. If the refrigerator cost her $150, what were her original savings? The distance guards Harry and Kate are 2500 metres. Kate and Harry start walking towards each other and Kate's dog starts running back and forth between Harry and Kate at a speed of 120 yards per minute. Harry runs at speeds of 40 yards per minute while Kate runs at the speed of 60 yards per minute. What distsnce will the dog have travelled to when Harry and Kate meet each other? Answers to the above Questions More Middle School Math (Grades 6, 7, 8, 9) – Free questions and problems with Answers More High School Math (Grades 10, 11 and 12) - Free questions and problems with Answers More Primary Mathematics (Grades 4 and 5) with free questions and problems with AnswersHome Page report this ad