Free math worksheets proportion word problems

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You are here: Home → Worksheets → Ratios Find here an unlimited supply of worksheets with simple word problems involving ratios, meant for 6th-8th grade math. In level 1, the problems ask for a specific ratio (such as, "Noah drew 9 hearts, 6 stars, and 12 circles. What is the ratio of circles to hearts?"). In level 2, the problems are the same but the ratios are supposed to be simplified. Level 3 contains varied word problems, similar to these: A bag contains 60 marbles, some blue and some green. The ratio of blue marbles to green ones is 1 : 5. How many blue marbles are there?or A truck is carrying mango juice, tomato juice, and passion fruit juice bottles in a ratio of 4 : 4 : 3. If there are 1020 passion fruit juice bottles, then how many juice bottles in total are there? Options include choosing the number of problems, the amount of workspace, font size, a border around each problem, and more. The worksheets can be generated as PDF or html files. Basic instructions for the worksheets Each worksheet is randomly generated and thus unique. The answer key is automatically generated and is placed on the second page of the file. You can generate the worksheets either in html or PDF format — both are easy to print. 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. Use the generator to make customized ratio worksheets. Experiment with the options to see what their effect is. A good book on problem solving with very varied word problems and strategies on how to solve problems. Includes chapters on: Sequences, Problem-solving, Money, Percents, Algebraic Thinking, Negative Numbers, Logic, Ratios, Probability, Measurements, Fractions, Division. Each chapter's questions are broken down into four levels: easy, somewhat challenging, challenging, and very challenging. In Math class there are 60 students. The ratio of boys and girls was 4:6. How many boys and girls are there? 15 miles is approximately equal to 18 km. How many km are equal to 45 miles? How many miles are equal to 42 km? John has 30 marbles, 18 of which are red and 12 of which are blue. Jane has 20 marbles, all of them either red or blue. If the ratio of the red marbles to the blue marbles is the same for both John and Jane, then John has how many more blue marbles than Jane? 10 stuffed peppers cost $ 40. What will 4 stuffed peppers cost? Chef Pillsbury's secret recipe requires 7 eggs for every 2 cups of flour. How many eggs will he needed if he uses 8 cups of flour? $30. What will 35 stuffed peppers cost? The ratio of two quantities a and b are in the same units, is the fraction a/b and we write it as a: b. In the ratio a : b, we call a as the first term or antecedent and b, the second term or consequent. 18 Cadburys cost $120. What cost 30 Cadburys? Cake is made from two types of ingredients; flour and egg yolk in the ratio 5: 2. How many of egg yolks will be needed to make 800 grams of cake? Kate has two types of gems in her collection. Rubys and emeralds are in the ratio of 8: 5. How many emeralds are there in the collection which has a total of 130 gems? The scale factor for a room is 4 inches: 200 meters. If the room is 18 inches, how long is it? On a scale, 13 m is approximately equal to 24.7 km. How many km are equal to 17.4 m? In a bag of blue and orange balls, the ratio of blue balls to orange balls is 2:3. If the bag contains 125 blue balls, how many orange balls are there? Making 4 apple pies requires 1 pound of apples. How many pounds of apples are needed to make 6 pies? When 3,000 pounds of paper are recycled or reused, 20 trees are saved. How many trees are saved if 9,000 pounds of paper is recycled? A stone dropped from a tall building, falls 14 feet in the first second. How far does it fall in two seconds? A very small sample of light bulbs consisted of 3 defective ones and 47 good bulbs. Assume that today's batch of 5,000 light bulbs has the same proportion of defective bulbs as the sample. Determine the total number of defective bulbs made today. If 3/4 of a tank can be filled in 15 minutes, how many minutes will it take to fill the whole tank? If the ratio of red balls to blue balls in a bag is 9 to 5, and there are total 210 balls, how many of them are red? Making 5 apple pies requires 2 pounds of apples. How many pounds of apples are needed to make 8 pies? A scientist counted birds on cornfield. He counted eleven crows, four jays and nine hawks. What is ratio of hawks and crows. ? Lisa won 156 games, the Nancy won 52 games. What is the ratio of wins of the Lisa to the Nancy? If the age of two boys A and B are in the ratio 12:10, what will the age of boy A and boy B be after 15 years, if their ratio will be 18:16? Terry takes 15 minutes to eat 1 pizza. How much time will he take to eat 12 pizzas? Tony has 30 marbles, 18 of that are red and 12 of that are blue. Janet has 20 marbles, all of them either red or blue. If the ratio of the red marbles to the blue marbles is the same for both Tony and Janet, then Tony has how many more blue marbles than Janet? 2 If it costs $90 to feed a family of 3 for one day, how much will it cost to feed a family of 5 for one day? 3 liters of water is mixed with 4 lemons to make limewater. How many liters of water are to be mixed with 8 lemons to make limewater? The perimeter of a rectangle is equal to 280 meters. The ratio of its length to its width is 5:2. Find the area of the rectangle. Which is greater, seven-ninths of 81 or three-elevenths of 121? The length and width of a rectangle is in the ratio of 7: 6 and their difference is 34 cm. Find out the perimeter of the rectangle. The ratio of the cost of a computer monitor to the cost of computer keyboard is 9:4. A computer monitor costs $56 more than a keyboard. What is the cost of a monitor? A jar is filled with toffees and cakes in the ratio of 3: 7. There are 35 cakes in the jar, how many toffees are there? Two numbers are in the ratio of 1: 9. The sum of these numbers is 80. What is the smaller number? Two numbers are in the ratio of 2: 11. The sum of these numbers is 78. What is the smaller number? Which is bigger, one-eighth of 64 or half of 82? A child can draw 12 shapes in 6 minutes. How long does it take the child to draw 20 shapes, at the same speed? Mary is searching for her physics book and discovers that she has 4 notebooks for every 1 pair of books. If she has 24 notebooks, how many pairs of books does she have? Which is bigger, one-eighth of 40 or half of 30? Fred can shoot 9 objects in 5 minutes. How long does it take Fred to shoot 45 objects, at the same speed? Students will compare ratios. Three problems are provided, and space is included for students to copy the correct answer when given. In a bag of blue and orange balls, the ratio of blue balls to orange balls is 2:3. If the bag contains 125 blue balls, how many orange balls are there? Making 4 apple pies requires 1 pound of apples. How many pounds of apples are needed to make 6 pies? John has a bag full of marbles that he keeps in his room. He has 45 red marbles and 35 green marbles. Find the ratio of red marbles to green marbles, and put it in its simplest form? A stone dropped from a tall building, falls 14 feet in the first second. How far does it fall in two seconds? A very small sample of light bulbs consisted of 3 defective ones and 47 good bulbs. Assume that today's batch of 5,000 light bulbs has the same proportion of defective bulbs as the sample. Determine the total number of defective bulbs made today. 30 words in 5 minutes = _____ words in 50 minutes 40 miles with 2 gallons = _____ miles with 11 gallons 144 seats in 12 rows = _____ seats in 4 rows $85 for 17 kites = _____ dollars for 8 kites 924 miles in 6 gallons = _____ miles in 4 gallons 108 miles with 9 gallons = _____ miles with 12 gallons There are a total 36 balls. If the ratio of red balls to blue balls is 1 to 5, how many of them are red? Bob is at the Milestone, and he see that 2 wind chimes cost $5. He needs 20 wind chimes to decorate his house How much will 20 wind chimes cost? Sam is looking for her history book and discovers that she has 4 books for every 1 notebook. If she has 24 books, how many notebooks does she have? If the ratio of Yamaha bikes to Honda bikes is 2 to 4 and there are total 42 bikes, how many of them are Yamaha? Don is at the Superstore, and he see that 10 apples cost $8. He needs 30 apples to donate to an orphanage. How much will 30 apples cost? If the ratio of cookies to candies is 1 to 8 and there are total 64 items, how many of them are cookies?

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