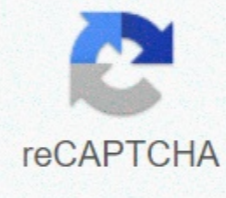




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## Inverse variation worksheet

Worksheet on reverse variation word problems there are several types of questions to practice. Students can remember how to solve word problems in reverse variation, and then try to resolve the worksheet about reverse variation or inverse aspect ratio. 1. If 32 men can harvest a field in 15 days, how many days can 20 men harvest the same field? 2. 12 men can dig a lake in 8 days. How many men can dig in six days? 3. A hostel has enough food for 125 students for 16 days. How long will the food last if 75 more students join them? 4. A fort had enough food for 80 soldiers for 60 days. How long would the food last if 20 more soldiers joined after 15 days? 5. 500 soldiers in a fort had enough food for 30 days. After 6 days, some soldiers were sent to another fort and thus the food lasted another 32 days. How many soldiers left the fort? Tip: On the day of the transfer of some soldiers from this fort, 500 soldiers had enough food for  $(30 - 6) = 24$  days. But the food lasted 32 days. 6. 8 taps with the same flow rate, fill one tank in 27 minutes. If two taps are not ordered, how long will the remaining taps take to fill the tank? 7. If 12 men or 15 women can finish a job in 66 days, how long will 24 men and 3 women take to finish the job? 8. 70 patients in a hospital consume 1350 liters of milk in 30 days. At the same rate, how many patients will consume 1710 liters in 28 days? 9. If 30 workers working 7 hours a day can finish a job in 18 days, how many workers who work 6 hours a day can finish it in 30 days? 10. If 5 men working 6 hours a day can harvest a field in 20 days, on how many days will 15 men harvest the field if they work 8 hours a day? 11. If 18 folders can connect 900 books in 10 days, how many folders will they be required to link 660 books in 12 days? 12. If 20 men can build a 112 m long wall in 6 days, what will be the length of a similar wall that can be built by 25 men in 3 days? 13. Six men, working 8 hours a day, make \$8,400 a week. What will be the gain per week of 9 men who work 6 hours a day? 14. If 270 kg of corn would feed 42 horses for 21 days, how many days would 360 kg feed 21 horses? 15. Five machines, when operated for 9 hours a day, can harvest a farm in 16 days. How many days would 8 machines take to harvest the same farm if each machine is operated for 10 hours a day? The answers to the worksheet on the reverse variation are given below to verify the exact answers of the question. Answers: 1. 24 days 2. 16 men, 3. 10 days 4. 51 days 5. 125 soldiers 6. 36 minutes 7. 30 days 8. 95 patients 9. 21 workers 10. 5 days 11. folders 12. 70 m 13. \$9,450, 000. 56 days 15. 9 days Proportion and Proportion - Spreadsheets on Direct Variation Spreadsheet on Reverse Variation 8th Grade Mathematical Practice worksheet on reverse variation for HOME PAGE Did not find what you were looking for? Or you want to know information on Mathematics Only Mathematics. Use this Google search to find what you need. Direct and reverse variation worksheets are designed for high school students and are divided into subtopics such as identifying the type of variation by observing equations, charts, and tables, finding the variation constant, and more. Worksheets provide double levels, level 1 handles direct and inverse variations, while level 2 handles direct, inverse, joint, and combined variation. Prior knowledge of proportions will definitely be an additional advantage. Start your practice with our free spreadsheets! Recognize direct and inverse variation The multi-response pdf worksheets of the quintet have exercises for students to observe equations, graphs, and recognize the type of variation as direct (linear graph) or inverse (rectangular hyperbola). Direct and Inverse Variation - Equations that represent direct variation are in form  $y = kx$ , and inverse variation is in the form  $xy = k$ . Identify the type of variation in the equations presented in these printable worksheets. Also, find the variation constant (k). Complete the table This pdf sheet set consists of exercises in tabular format. Find the variation constant (k) and complete the table. Reverse Variation Troubleshooting – Practice issues Move your mouse over the Answer to reveal the response or click the Full Solution link to reveal all the steps necessary to resolve reverse variation issues. If  $y$  varies inversely as  $x$ , and  $y = 32$  when  $x = 3$ , find  $x$  when  $y = 15$ . The frequency of a vibrant guitar string varies inversely as its length. Suppose a 0.65-meter-long guitar string vibrates 4.3 times per second. How often would a 0.5-meter-long rope have? If  $r$  varies inversely as the  $s$  cube, and  $r = 17$  when  $s = 3$ , find  $r$  when  $s = 2$ . If  $g$  varies inversely as the square root of  $h$ , and  $g = 9$  when  $h = 121$ , find  $g$  when  $h = 81$ . The current in a simple electrical circuit is inversely proportional to the resistance. If the current is 80 amperes when the resistance is 50 ohms, find the current when the resistance is 22 ohms. The intensity of light produced by a light source varies inversely as the square of the distance from the source. If the intensity of light produced at 3 feet from a light source is 750 feet of candles, find the intensity of light produced 1.5 m from the same source. Related Topics: More Lessons for 9th Year Mathematics Examples, videos, spreadsheets, solutions, and activities to help Algebra students learn how to solve inverse variations or problems and applications of reverse proportions. The following diagram shows examples of reverse variation. Scroll through the page for more examples and solutions to problems words of inverse variation. Algebra Word Problem Reverse Variation Actual examples of inverse variation 1. The time that a trip takes and the speed traveled. 2. 2. time taken to spread landscaping rock and the number of people working. 3. The amount of money required per person for gasoline and the number of people in the car. Examples: 1.  $Y$  varies inversely as  $x$ .  $Y = 4$  when  $x = 2$ . 2. The time required to empty a tank varies inversely as the  $r$  rate of pumping. If a pump can empty a tank in 2.5 hours at a rate of 400 gallons per minute, how long will it take to empty a tank at 500 gallons per minute? 3. The  $F$  force required to break a plate varies inversely with the length  $l$  of the board. If it takes 24 kilograms of pressure to break a 2-foot-long plank, how many pounds of pressure will it take to break a 1.5-meter-long board? 4.  $Y$  varies inversely as the square root of  $x$ .  $Y = 6$  when  $x = 16$ . Determine the inverse variation equation. Then determine  $y$  when  $x = 4$ . Show the reverse variation application step-by-step solutions when modeling real-world situations, we often use what is called reverse variation to describe a relationship between two variables. Inverse variation is a relationship in which the absolute value of one variable becomes smaller while the other becomes larger. Inverse variation and direct variation are important concepts to understand when learning equations and interpreting graphs. Show Solution walkthroughs Mathematical variation: Direct and Indirect When modeling real-world situations, we often use what is called inverse or indirect variation to describe a relationship between two variables. Indirect variation is a relationship in which the absolute value of one variable becomes smaller while the other becomes larger. Indirect variation and direct variation are important concepts to understand when learning equations and interpreting graphs. Show step-by-step solutions What is the Reverse Variation or Indirect Proportionality Formula? Have you ever heard of two things being inversely proportional? Well, a good example is speed and time. The higher your speed, the less time it takes to get where you are going. So when one variable is large, the other is small, and that's the idea of inverse proportionality. But you can express inverse proportionality using equations, and that's an important thing to do in algebra. Show Step-by-Step Solutions Try the free mathway calculator and troubleshooter below to practice various math topics. Try the data examples or type your own problem and check your answer with step-by-step explanations. We welcome your comments, comments and questions on this site or page. Send your comments or questions via our Comments page. Variation is a concept that deals with how one variable changes relative to another variable. Go through our spreadsheets of direct variation and printable to keep students informed of the two main types of variation and illuminate them with their equations:  $y = kx$ , and  $xy = k$ . In addition, make them well versed in finding the constant variation by equations and analysis of datasets here. Our batch of pdf spreadsheets is ideal for high school students. CCSS: HSA-CED HSA-CED

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