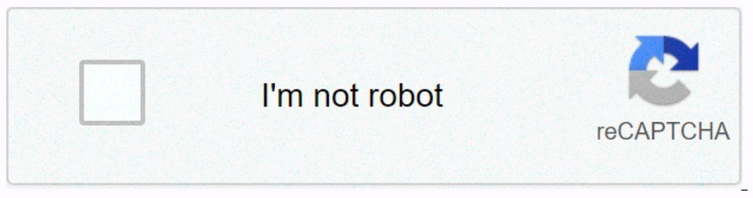

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Showing the top 8 worksheets in the range - Combined variation. Some of the worksheets displayed are direct antonyms and joint variation work, Algebra 2 Lessons 10A work direct antonym and combined, direct and antonym variation, 1, and statistics antonyms and combined variation, inverse and joint variation, activity direct inverse combined variation time, direct and antonym variation work 4. Once you find your worksheet, click the pop-out icon or print icon on the worksheet to print or download. The worksheet will open in a new window. You can download or print using browser document reader options. Displaying the top 8 worksheets found for the combined variation. 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Related Topics: More Algebra Word Problems Algebra Worksheets Algebra Games The following diagrams give different types of variation: direct variation, antonym variation, combined variation and combined variation. Scroll down the page for examples and solutions. What is joint variation and joint variation? Combined variation is a variation where quantity varies directly as a product of two or more other quantities. For example, the area of one It varies whenever its length or its width varies. We say that a $\propto$ LW, where there is an area, is L length and W is width. Combined variation is a variation where quantity two (or more) depends on other quantities, and varies directly with some of them and the reversal with others. Example 1: A quantity inversely varies as two or more other quantities. The figure below shows the rectangular concrete with a certain amount. Express its width, L, and height, W, as a joint variation in terms of H. Solution: W $\propto$ 1/(LH) In other words, the length is L or height H, narrower width W. Example 2: One quantity varies directly as one quantity and as inverted as another. The speed, S, varies directly as the distance of a moving object traveled, D, and the time changes as the reversal, T. Express S as a combined variation in terms of D and T. Solution: $\propto$ d/t in other words, longer is the distance or shorter time, faster speed. How to solve joint variation problems? Example: Let's say Y varies jointly as X and Z. X = 2 and Z = 3, if y = 20 when x = 4 and z = 3 then what is Y? Step-by-step solutions show joint variation problems examples: x= 3, y = 8, Z = 6 when there is a fraction combined with x and y. find z when x = 6 and y = 4. Show step-by-step solutions how to solve combined variation word problems and applications? Example: The energy that an object has because of its motion is called kinetic energy. The kinetic energy of an object (measured in a joule) varies jointly with the square of the object's mass and its velocity. If the kinetic energy of a ball of 3 kg is 12 m/s traveling 216 joules, how is the mass of a ball that generates 250 joules of energy when traveling at 10 m/s? Show step-by-step solutions direct, inverse, and combined variation examples: determine whether the data in the table is an example of direct, inverse or combined variation. Then, identify the equation representing the relationship. Step-by-step solutions show what is the combined variation? In algebra, sometimes we have functions that differ in more than one element. When this happens, we say that there are joint variations or joint variations in the functions. The combined variation is a direct variation for more than one variable (for example, D = (R)(T)). With combined variation, we have both direct variation and indirect variation. How to install and solve joint variation issues? Example: Let's say Y varies combined with X and Z. When y = 20, x = 6 and z = 10. When x = 8 and z = 15 find y. Show step-by-step solution lessons on the combination of direct and inverse or joint and inverse variation examples: Y directly varies as X and vice versa as square of Z, and when x = 32, Y = 6 and Z = 4. y = 10 and z = 3 Find X. Show step-by-step solutions to solve problems associated with combined and combined variations? Example: 1) If t varies jointly with you and V's, and T-1152 is when you have 8 and have V4, get T when the V is 5 and you have 5. 2) The amount of oil used by the ship travelling at a uniform speed varies combined with the square of distance and speed. If the ship uses 200 barrels of oil in traveling 200 miles at 36 mph, determine how many barrels of oil are used when the ship travels 360 miles at 18 mph. 3) Designer dolls found that their number of dress-up dolls sold, N, changes their advertising budget directly with one, and each doll, proportionally inverted with the price of P. When $54,00 was spent on advertising and the doll costs $90, 9,600 units are sold. Determine the number of dolls sold if the amount of advertising budget increases to $144,000. Step-by-step solutions show joint variation examples: Y combined as X and Z and vice versa as W, and Y = 3/2, when x = 2, Z = 3 and W = 4. Find the equation of variation. Show step-by-step solutions Try the free mathway calculator and problem solver below to practice different math topics. Try the given examples, or type in your problem and check your answer with step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Please submit your feedback or inquiries through our feedback page. Solving joint variation issues - Practice moving your mouse over the answer to reveal the issues answer or click the Complete Resolution link to reveal all the steps needed to resolve the combined variation issues. If Y varies jointly as X and Z, and y = 33 when x = 9 and z = 12, then find y on x = 16 and z = 22. If F G and H have a cube as it varies jointly, and F= 200 when G = 5 and H = 4, F when G = 3 and H = 6 sounds. Wind resistance varies jointly in the form of surface area and velocity of an object. If an object travels 40 miles per hour with a surface area of 25 square feet to experience an air resistance of 225 Newton, how fast should a car with 40 square feet of surface area travel in order to experience an air resistance of 270 Newton? For a given interest rate, the simple interest varies jointly as the principal and time. If $2000 earns an interest of $320 left in an account for 4 years, how much interest will be earned if you deposit $5000 for 7 years? If the square of A B and C changes jointly as root, and A = 21 when B = 5 and C = 36, a when B = 9 and C = 225. The volume of the pyramid varies jointly as to its height and the area of its base. The base with a height of 12 feet and a base of 23 square feet area is 92 cubic feet. Find a base with a pyramid volume of 17 feet and an area of 27 sq ft. United here The steps required to solve the problems are given: Step 1: Write the correct equation. Joint variation problems are solved using equation Y = kxz. When dealing with word problems, you should consider using other variables x, Y and Z, you should use variables that are relevant to solve the problem. Also read the problem carefully to determine if there are any other changes to the combined variation equation, such as squares, cubes, or square roots. Step 2: Use the information in the problem to find the value of Kashmir, which is called constant variation or constant of similarity. Step 3: Rewrite the equation from step 1 substitution in the value of K found in step 2. Step 4: Use the equation found in step 3 and the rest of the information in the problem to answer the asked question. When solving word problems, remember to include units in your last answer. Example 1 - If Y varies jointly as x and z, and y = 12 when x = 9 and z = 3, then find Z on Y = 6 and x = 15. Step 1: Write the correct equation. Joint variation problems are solved using equation Y = kxz. Step 2: Use the information in the problem to find the value of k. In this case, you need to search on y =12, x=9, and z=3. Step 3: Rewrite the equation from step 1 substitution in the value of K found in step 2. Step 4: Use the equation found in step 3 and the rest of the information in the problem to answer the asked question. In this case, you need to find Z when Y=6 and x=15. Example 2 - If P varies jointly as Q and R squared, and P=225 when q=4 and r=3, p when q=6 andr=8 appears. Step 1: Write the correct equation. Joint variation problems are solved using equation Y = kxz. In this case, you should use P, Q and R instead of X, Y and Z and pay attention to how the squared word changes the equation. Step 2: Use the information in the problem to find the value of k. In this case, you need to find k when P=225, Q=4, and R=3. Step 3: Rewrite the equation from step 1 substitution in the value of K found in step 2. Step 4: Use the equation found in step 3 and the rest of the information in the problem to answer the asked question. In this case, you need to find P at Q=6 and R=8. Click here for practice problems Example 3 - If a B varies jointly as cube and C, and a = 36 when B = 4 and C = 6, a when b = 2 and c = 14. Step 1: Write the correct equation. Joint variation problems are solved using equation Y = kxz. In this case, you should use A, B and C instead of X, Y and Z and pay attention to how the cube word changes the equation. Step 2: Use the information in the problem to find the value of k. In this case, you need to search on A=36, B=4, and R=6. Step 3: Rewrite the equation from step 1 substitution in the value of K found in step 2. Step 4: Equations found in step 3 to answer the question asked and the rest of the information given in the problem Do. In this case, you need to find B=2 and C=14. Click here for practice problems Example 4- The amount of cones combined its height and Of its scope. A cone with a radius of 6 inches and a height of 10 inches has a volume of 120 cubic inches. Find the amount of cones with a radius of 15 inches and a height of 7 inches. Step 1: Write the correct equation. Joint variation problems are solved using equation Y = kxz. In this case, you should use V, H and R instead of X, Y and Z and pay attention to how the square word changes the equation. Step 2: Use the information in the problem to find the value of k. In this case, you need to find K when V=120, H=10, and R=6. Step 3: Rewrite the equation from step 1 substitution in the value of K found in step 2. Step 4: Use the equation found in step 3 and the rest of the information in the problem to answer the asked question. In this case, you need to find V when H=7 and R=15. Click here for practice problems Example 5 - Kinetic energy varies jointly as a class of mass and velocity. A mass of 8 grams and a velocity of 5 centimeters per second have kinetic energy of 100 ergs. Find kinetic energy for a mass of 6 grams and a velocity of 9 centimeters per second. Step 1: Write the correct equation. Joint variation problems are solved using equation Y = kxz. In this case, you should use E, M and V instead of X, Y and Z and pay attention to how the square word changes the equation. Step 2: Use the information in the problem to find the value of k. In this case, you need to search on E=100, M=8 and V=5. Step 3: Rewrite the equation from step 1 substitution in the value of K found in step 2. Step 4: Use the equation found in step 3 and the rest of the information in the problem to answer the asked question. In this case, you need to find E when M=6 and V=9. Click here for practice problems problems

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