

Name:

Calculating WORK positive worksheet

Example: If the force required to move a block is 2 Newtons and the block is moved a distance of 3 meters, what is the work done?
 Force (2 Newtons) multiplied by distance (3 meters) equals the work done (6)
 $2\text{ N} \cdot 3\text{ m} = 6\text{ Joules of Work}$

Practice Problems: What is the amount of work done for each of the following problems?

Problem #	Force (Newtons)	Distance (meters)	Work (Newtons meters or Joules) done
1.	1 N	4 m	
2.	3 N	2 m	
3.	4 N	3 m	
4.	1 N	10 m	
5.	3 N	7 m	
6.	10 N	2 m	
7.	3 N	7 m	
8.	4 N	1 m	
9.	20 N	4.5 m	
10.	9.5 N	3 m	

Example Word Problems (Draw a free-body diagram with the units labeled!)

11. If a car is moved 10 meters and 3 Newtons of force is needed to move the car, what amount of work has been done?
 12. If a ball is lifted 2 meters off the ground and 5 Newtons of force were needed to move it, what amount of work has been done?
 13. The force required to move a chair 4 meters is 5 Newtons, what amount of work is done?
 14. The force required to move a sled was 18 Newtons and the sled was moved 70 meters, how much work was done?
 15. You decided to change your bedsheet. You moved your bed 1.8 m across your room and the force you used to move the bed was 20 N, how much work did you do?

Challenge Questions: Please try to solve these challenge questions. Use a ruler best sheet!

16. If the amount of work done was 6 Joules on an object and the object was moved 10 cm, how much force was required?
 17. If the amount of work done on a book was 18 J and the force required to move the book was 2.5 N, what was the distance the book was moved?
 18. If 100 J of work was done to move a car and the distance the car was moved was 50 m, what amount of force was used?
 19. If 30 N of force was required to move an object 50 cm, how much work was done?
 20. If 10 N of force was required to move an object 8 m, how much work was done?
 Extra Credit: Write down 10 word problems for other students to solve.

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7+ Calculating Work Worksheet With Answers - Work ...

Calculating Work Worksheet. Name ___ Date ___ You can use calculator but you must show set up for all math calculations. A 45N girl sits on a 8N bench. How much work is done on the bench? Remember that work = force x distance. What is the work? A boy lifts a 30N dragon 2 meters above the ground. How much work did the boy do on the dragon?

Calculating Work Worksheet

Calculating work (Practice Problems with answers) Week of 10/1 study guide by Justice_House-Teach includes 14 questions covering vocabulary, terms and more. Quizlet flashcards, activities and games help you improve your grades.

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The first formula, work = force * Distance, is used where the force applied is constant. Solving these types of problems is relatively easy. All you have to do is multiply force by distance. Example. Example question: How much work do we need to do to lift a 30 lb box 4 feet off the ground?

Work: Definition, Calculation by Integration - Calculus How To

The mechanical work applied to an object can be calculated by multiplying the force times the distance. The proper way to work this is force x distance= joules. (It is pronounced jewelsbut is ...

How is work calculated? - Answers

This online Work Calculator helps you find out the work, force or distance based on the other two parameters. Work, force and distance are related to each other. When you apply a greater force, the work done and the distance travelled is high and vice versa. Work, force and acceleration are the basic concepts of travel and distance calculations

in Physics. Enter the required values know the unknown value of work or force or distance. We can also calculate force, distance from work equation ...

Work Calculator | Calculate Force, Distance

The amount of work done upon an object depends upon the amount of force (F) causing the work, the displacement (d) experienced by the object during the work, and the angle (theta) between the force and the displacement vectors. The equation for work is ... $W = F \cdot d \cdot \cos(\theta)$

Calculating the Amount of Work Done by Forces

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Step-by-Step Calculator - Symbolab

Questions & Answers Tips and Warnings Related Articles References Article Summary Author Info. Last Updated ... How do I calculate work done if I know the time, speed, height, and weight? Answer: A 631 N force acts on an object causing a displacement of 40.3 m. If the force does 983 J of work, how can I calculate the angle between the force and the displacement? Answer: How far must an object ...

How to Calculate Work: 11 Steps (with Pictures) - wikiHow

Work, in physics, is defined as the product of force x distance. This assumes that the force is constant, and that it is in the same direction as the movement. Otherwise, a slightly more ...

How do i calculate work? - Answers

Let's now calculate the work done on the box in this step. Thus, the total work done in lifting an object of mass m a distance of d 1 is mgd . (You might wonder about why we don't account for the initial acceleration of the box and the deceleration of the box at the end of the displacement. As it turns out, the acceleration and deceleration, although they do involve work, mathematically ...

Physics 101: How to Calculate Work | UniversalClass

Work Practice Sheet 1. Is the person doing work? Give reasoning for your answer. a. When pushing a 1000 N car 10 m. Therefore b. Lifting a rock off the ground. c. Holding a book in your hands. d. Pushing hard on a brick wall. Directions: Use the formula $W = F \times D$ to solve the following problems. Show work and use proper units. 2. How much work ...

Work Practice Sheet

Investigation 1 Calculating Work When Force and Displacement are in Same and Different Alignment Investigation 1.1 a) Connect the force probe to the LabPro interface. A data table and graph for force versus time will open automatically.. +5 Force (N) 10 -5 8 6 4 2 Time (s) b) Calibrate the force probe with a 500g mass.

Solved: Investigation 1 Calculating Work When Force And Di ...

Feedback Resume < Questions of 9 Attempt Calculate the work in megajoules (1 MJ = 1 x 10) required to pump all the water out of a full trough from which water exits by

pouring over the sides, Assume that a 12 m, b = 15 m, c = 8 m, and Am. The density of water is 1000 kg/m., and 3 9.8 m/s. (Use decimal notation. Give your answer to two decimal places) work 40.57 MJ 5 8 9 E R T Y o P G H.

Calculate The Work In Merajoules (1 MI= 1*10*) Req ...

This work and power calculator helps you determine the mechanical power of a particular device. You can also use it to find out how much work will be performed by a machine of a given power in a certain amount of time. If you want to calculate electric power, try our Ohm's law calculator. Definition of work . In Physics, work performed by an object is understood as the amount of energy that ...

Work and Power Calculator

Worksheet.Calculate method (Excel) 05/30/2019; 2 minutes to read; In this article. Calculates all open workbooks, a specific worksheet in a workbook, or a specified range of cells on a worksheet, as shown in the following table. Syntax. expression.Calculate. expression A variable that represents a Worksheet object. Remarks

Worksheet.Calculate method (Excel) | Microsoft Docs

Calculating Work, Energy, and Power. Homework Help? I have struggled with these problems for quite awhile, can someone plz help? The average car today weighs 3510 lb, and when accelerating from rest, covers 0.250 mile in 15.0 seconds. a. What was the acceleration of the car? b. What was the force accelerating the car? c. What was the work done to accelerate the car? d. What was the kinetic ...

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