Coefficient of friction worksheet pdf

Some of the following worksheets are Worksheet with Friction Problems Coefficient Answers, Various calculations involving friction coefficient, friction types such as Friction Friction, Sliding Friction, Fluid Friction, ..., Static and Kinetic Friction : Objectives -Distinguish between Static and Kinetic Friction Between Friction Effects and Static & Kinetic Friction Coefficients, ... When you find your worksheet (s), you can click the drop-down icon or download button to print or download the worksheet you want. Please note that you can also find the download button at the bottom of each document. Friction coefficient problems : 7 Questions about friction coefficient. Friction Worksheet : Fill in the blanks questions, questions, ... Friction Coefficient : Calculations containing the friction coefficient. Replies to the worksheet above. Forces and Friction Worksheet : 15 Questions. Four types of friction: static friction, liquid friction, sliding friction, rolling friction. 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Friction Worksheets Simple Machines Friction Key answers for Middle School Types. Coefficient of friction worksheet answers. It came from reliable online source here and we love it. To be honest we have also been lying on the 21 coefficient of friction worksheet answers that are currently one of the most popular area on the document sample. Some of the following worksheets are worksheets with various calculations including the coefficient of friction problems, friction friction silicate friction silicate static and kinetic friction types. The mass of the box is 20 kg, and a force of 200 n pushes the box to the right. Worksheet with coefficient answers to friction problems. Draw a picture of the box and show all the forces moving in the box. View all worksheets related to the friction coefficient. Targets solve problems that include the difference between static kinetic friction, friction effects, and static kinetic friction coefficients. To print or download, click the icon or print icon that opens to the worksheet. If the disc feels a normal force f n, what is the friction force moving on the disc. The friction force moving over the box is 100 n to the left. Some of the worksheets displayed are unit 1 response key motion forces and energy friction 2 business forces review study 5 1213 ss answer key physics bill nye scientist friction tools and equipment part i activity inclined plane force mass acceleration friction study. A hockey pyre has a kinetic friction coefficient μ k 10. The 8 best worksheets are shown in the Friction category. If the disc feels a normal force f n, what is the friction force moving on the disc. A box is based on a flat surface. When you find your worksheet. A hockey disc has a coefficient of μk 10 kinetic friction. So you tried to find some awesome 21 friction worksheet answers graphics for you. A hockey pyre has a kinetic friction coefficient μ k 10. Since we are trying to move ff μfn 005 800n 40 n 3 blocks, we need to use the static friction coefficient that we found in the reference table. Friction coefficient worksheet. Friction worksheet answers 1 explained the math for this. Some of the worksheets displayed are 5 1213 friction 2 work physics friction work friction study course 2 force mass acceleration friction work physics 02 03 friction name friction and net force work 2. Ff μfn 074 300n 222 n 4 kinetic friction coefficient is always less. Friction coefficient worksheet 1. Worksheets 5 1213 friction 2 work physics friction work friction study course 2 force mass acceleration friction study physics 02 03 friction name net force work 2. Forces worksheet 3 newtons laws friction problems 1. If the disk feels a normal force fn of 5 n, what is the friction force that moves on the disc. Let's say that 10 n forces are applied to the side of a 40 kg block sitting on a table. Coefficient of friction problems 1. Template Physics 11 2017 Force Worksheets High School Physics Friction Worksheets Ddf7b37b0c50 Bbcpc Inclined Aircraft Solutions Friction Worksheet 2 Hopewell Hand Worksheet Ii Pdf Friction Worksheet Caitlinmoss Club Kindergarten Study Coefficient Friction With Friction Answers Free Phonics Reading Understanding Ck Hockey Working Papers School J3010 Unit 4 Physics Force Working Papers Answers with 26 Lovely Coefficient Friction Worksheet Answers Pictures Gravitational Force And Friction Grade 11 Physics General Physics Push and Pull Study Class Strength and Motion Worksheets Physics Worksheets With Answer Key Force Wave Features Self-Respect Therapy Worksheet Newatvs Information Friction Worksheet Surface Roughness Friction and Gravity Worksheet Answers Possible Examples Friction Namewk P141 67 72 75 77 3 Motion Laws Worksheets Newton S Third Law Worksheet Action A Friction Worksheet Transmission Friction Worksheet Welcome Weight Friction and Balance Worksheet Answers Average Median Mode Friction Study Page Answers Described Conceptual Physics Friction Worksheet Friction and Normal Force AP Physics C Mechanics Friction Worksheet Free Friction Worksheet for Secondary School Printable Worksheet: | Year 1 | Year 2 | 3 | 4) (4) (4) 5 | 6 | 7 | 8 . 9 | 10 | 11 | 12 | 13 | 14 | 15 | Go up - Chris Murray, 2001, 2004 by 1. What is the friction force between a block of ice weighing 930 N and m = .12? Ffr £μsFN Ffr = μkFN F = ma FN = 930 N μs = .12 Ffr =(0kFN = (930)(.12) = 111.6 N = 110 N (Table of Contents) 2. What is the static friction coefficient if you need 34 N force to move a box weighing 67 N? FN = 67 N μs = ? Ffr =34 N Ffr = μkFN 34 = μk(67) μs = .507 = .51 (Table of Contents) 3. When the static friction coefficient is 0.35, it takes 350 N for a box to start moving. What's the weight of the box? FN = ????? μs = .35 Ffr =350 N Ffr = μkFN 350 = (.35)FN FN = 1000 N = 1.0 x 103 N (Table of Contents) 4. A car has a mass of 1020 Kg and has a coefficient of friction between the floor and its tires .85. What kind of friction force can it apply to the ground? What is the maximum acceleration of this car? What minimum distance can it stand at 27 m/s? First find the normal force, which is weight in this case: F = ma = (1020 kg)(9.80 m/s) = 9996 N = FN Then use friction force to find friction force with the ground using friction force:Ffr = (.85)(9996 N) = 8496.6 N = 8500 Now we can find the momentum. Friction force is what accelerates the car, so F = ma 8496.6 N = (1020 (1020) a = 8.33 m/s / s = 8.3 m/s / Now you need to solve a cute linear kinematic problem: x = ????? vi = 27 vf = 0 a = -8.33 m/s (slowing down) t = I don't care Vf2 = vi2 + 2ax: 02 = (27)2 + 2(-8.33 m/s/s)s x = 43.76 m = 44 m (Table of Contents) 5. Clarice's carrying an 800. gram weight set by applying 1.2 N force. What is the friction coefficient? m = 800. g = .800 kg (divide by 1000) First find the normal force that weighs in this case: F = ma = (.800 kg)(9.80 m/s)=7.84 N = FN Next - apply friction formula strength:Ffr = μkFN 1.2 N = μk(7.84 N) μk = .15306 = .15 (Table of Contents) 6. There is a coefficient of friction between a car floor and tires .85. What is the mass of the car if the 9620 N force continues? First, normal forceffr = μkFN 9620 N = (.85)FN FN= 11317.65 N Now Normal force is also weight, thus you can find it using the mass: F = ma 11317.65 N = m(9.80 m/s) m = 1154.86 kg = 1200 kg (Table of Contents) 7. 5.0 Kg block has a friction coefficient of 0.15 on a flat surface. What is the acceleration if you apply a force of 15 N side to side while resting? (Find friction force first) First find the normal force, which is the weight in this case: F = ma = (5.0 kg)(9.80 m/s) = 49 N = FN Then using the friction force Find the friction force with the ground using the friction force:Ffr = (.15)(49 N) = 7.35 N Now we will establish newton's second law expression, since there are two forces moving in the horizontal direction, friction and applied force of 15 N: <Fnet>= ma <15 n= -= 7.35= n=>= (5)a = 1.53 = 1.5 m/s /s (Table of Contents) 8. The 10 Kg block should stand on a flat surface. When you apply 100 N force to the sides, it increases from rest to 51.2 m/s in 8 seconds. What is the acceleration of the block? What is the friction force between the surface and the block and what is the friction coefficient? First let's solve the cute linear kinematic problem: x = I don't care vi = 0 vf = 51.2 m/s a = ???? t = 8.0 s Usage vf = vi + at: 51.2 m/s = 0 + a(8.0 s) a = 6.4 m/s/s We established Newton's second legal statement, Since there are two forces moving in the horizontal direction, friction and an applied force of 100 N: <Fnet>= ma <115 n= -= f=>= (10)(6.4 m/s) = 64 NF = 51 N = Ffr Find the normal force that weighs in this case: F = ma = (10). kg)(9.80 m/s/s) = 98 N = FN After - apply friction formula strength:Ffr = μkFN 51 N = μk(98 N) μk = .5204 = .52 (Table of Contents) 9. A 120 Kg sled accelerates to 1.4 m/s when a horse pulls on it. If the friction coefficient between the ground and the sled is 0.28, what force should the horse use? First find the normal force that weighs in this case: F = ma = (120 kg)(9.80 m/s)=1176 N = FN Then it finds the friction force with soil using friction force using friction force:Ffr = =</115> </Fnet> </15> </Fnet>N) = 329.28 N Two forces moving in a horizontal direction, Because of friction and an unknown force, we established Newton's second legal statement: <Fnet>= ma <F -= 329.28= n=>= (120 kg)(1.4 m/s/s) F = 497.28 N = 5.0 x 102 N (Table of Contents) 10. You apply a force of 24 N to an object and it accelerates from a distance of 5.2 m to 0 -12 m/s. You know the coefficient of friction between the object and the soil is 0.58. First let's solve the cute linear kinematic problem: x = 5.2 m vi = 0 vf = 12 m/s a = ?????? t = I don't care Vf2 = vi2 + use 2ax: (12 m/s)2 = 02 + 2a(5.2) a = 13.8462 m/s/s Now we have established newton's second legal statement, Friction and applied force because there are two forces moving in horizontal direction: <Fnet>= ma <24 n= -= f=>= (m)(13.8462 m/s)(13.8462 m/s) F = 24 N - (m)(13.8462 m/s) = Friction force. Normal force F = ma = m(9.8 m/s/s) Now use friction formulas (Ffr = μkFN) to set this expression to f = 24 N - (m)(13.8462 m/s) = Friction force, equal to friction force. F = 3kFN = 0.58m(9.80m/s) = m(5,684 m/s) i.e. 24 N - (m)(13.8462 m/s) = m(5,684 m/s/s) 24 N = (m)(13.8462 m/s/s) + m(m)(13.8462 m/s) + m(m)(13.8462 m/s) + m(m)(13.8462 m/s) + m(m/s) + m(m)(m)(13.8462 m/s) + m(m)(13.8462 m/s) + m(m/s) + m(m)(m)(m)(13.8462 m/s) 5.684 m/s) = m(13.8462 m/s/s + 5,684 m/s/s) = m(19.5302m/s/s) m = (24 N)/(19.5302m/s)= 1.229 = 1.2

kg (Table of Contents) 11. The 15.0 kg wooden block with a kinetic coefficient of 0.370 is stopped with sliding friction to the right at 4.45 m/s and a force of 25.0 N. What's his slowdown? At what distance does it stop? We know the mass, so let's find the frictional force : Ffr = μkFN Ffr = (.370)(15.0 kg)(9.80 N/kg) = 54.39 N while sliding positively along the ground, we have this frictional force moving in a negative direction and -25.0 N in negative direction. Newton's second law looks like this: <-25.0 n= -= 54.39= n=>= (15.0 kg)a = -5.2927 m/s/s Let's solve the cute linear kinematic problem : x = ?? vi = +4.45 m/s vf = 0 a = -5.292 7 m/s/s t = I don't care Vf2 = vi2 + 2ax: 0 = (4.45 m/s)2 + 2(-5.2927 m/s)x = 1.87 m (Table of Contents) 12. The 1835 kg Batmobile must stop at a speed of 48.2 m/s. He has a coefficient of 0.93 friction with tires, and Batman goes to the opposite thrusters of his jet engines. What would his acceleration be if he stayed at a distance of 50.0 m? What additional stopping power does it need to do this? First let's solve the cute linear kinematic problem: x = 50.0 m vi = 48.2 m/s vf = 0 a = ?????? t = I don't care Vf2 = vi2 + 2ax: 0 = (48.2 m/s)2 + 2a(50.0 m) a = -23.2324 m/ s = -23.2 m/s/s We know the mass, Let's find frictional force : Ffr = μkFN Ffr = (.93)(1835 kg)(9.80 N/kg) = 16724.19 As the Batmobile moves in a positive direction, there is friction in a negative direction and the force of retro thrusters</-25.0> </24> </Fnet> </F> </Fnet>Batmobile - we'll call this force an F. Now we have established a Newton's Second Law: <Fnet>= ma <F -= 16724.19= n=>= (1835 kg)(-23.2324 m/s)F = -2 An 89,320 kg aircraft with a left (Table of Contents) of 5,907,264 N = -25,900 N - left (Table of Contents) to 13. 83.5 m/s should stop at a distance of 415 m. Engines can produce 313 kN reverse th push. What should be the plane slowing down? How much additional friction force does the tires have to be for the plane to stop? What is the minimum coefficient of friction between the plane's tires and the runway? Again, let's solve the cute linear kinematic problem first: x = 415 m vi = 83.5 m/s vf = 0 a = ?????? t = I don't care Vf2 = vi2 + 2ax: 0 = (83.5 m/s)2 + 2a(415 m) a = -8.40030 m/s = -8.40 m/s/s Now we have established Newton's second law - left-moving friction engines have reverse th pushing force to the left as the aircraft moves to the right: <F>= ma <F -= 313,000= n=>= (89,320 kg)(-8.40030 m/s/s s) F = -437314.9036 N = -437,000 N And now to find the coefficient of friction: Ffr = μkFN 43 77314.9036 N = μk(89320 kg)) (9.80 N/kg) μk = 0.499596616 = 0.500 (Table of Contents) 14. 18.5 kg has a coefficient of 0.35 between the orthoclastic basalt block and the floor. It slides to the right at 6.72 m/s and stops at a distance of 3.93 m due to friction and another force. What's his slowdown? What is the size and direction of the other force? Thumping knight pen answer chair clock: x = 3.93 m vi = 6.72 m/s vf = 0 a = ?????? t = I don't care Vf2 = vi2 + 2ax: 0 = (6.72 m/s)2 + 2a(3.93 m) a = -5.7453 m/ s = -5.75 m/s/s. we solved the friction force better because you never know when this might come in handy: Ffr = ffr = (.35)(18..) 5 kg)(9.8 N/kg) = 63.0 455 N We have now established Newton's second law - there is a left-moving friction force (F) and a MYSTERY FORCE moving in an unknown direction: <F>= ma <F -= 63.455= n=>= (18 .5 kg)(-5.7453 m/s/s) F = -42.83385 N = -42.8 N - will be left because it is negative (Table of Contents) 15. A wood block of 8.12 kg moves to the right at 4.5 m/s. There is a coefficient of 0.21 kinetic friction between wood and floor. If another force moves over the ground, at what distance will the block stand? The block slides at 3.15 m. What is the acceleration of the block? What other force should be applied to the block besides friction? We know the mass, so let's find the frictional force : Ffr = μkFN Ffr = (.210)(8.12 kg)(9.80 N/kg) = 16.711 N Now, if there is no other force moving along the plane, then we are all ready. As the block shifts to the right, the friction force moves to the left. (friction is always against the direction of slippage) Newton's </F> </F> </F> </F> </F> </F> </Fnet>it seems to be law in the horizontal direction: <F>= ma (-16.711 N) = (8.12)a = -2.058 m/s Pablo cat pile disgorge fraught noble house entreat Chuck: x = ??? vi = 4.50 m/s vf = 0 a = -2.058 m/s/s t = I don't care Vf2 = vi2 + 2ax: 0 = (4.50 m/s)2 + 2(-2.058 m/s/s)x = 4.9198 m = 4.9 m Let's solve the cute linear kinematic problem first: x = 3.15 m vi = 4.50 m/s vf = 0 a = ?????? t = I don't care Vf2 = vi2 + 2ax: 0 = (4.50 m/s)2 + 2a(3.15 m) a = -3.2143 m/s /s = -3.2 m/s / s shifting positively, there is friction in a negative direction, and so leave it as F. Now we have established a Newton's Second Law: <Fnet>= ma <F -= 16,711= n=>= (8.12 kg)(-3.2143 m/s/s) F = -9.39 N = -9.4 N - left (Table of Contents) content)</F> </Fnet> </F>

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