

impulse and momentum worksheet pdf

1. Define momentum. Give the equation and unit. 2. Two cars, one twice as heavy as the other, move down a hill at the same speed. Compared to that of the lighter car, the momentum of the heavier car is _____ as much. 3. a. For a constant force, if the duration of impact upon an object is doubled, how is the impulse affected? b.

Worksheet: Momentum and Impulse Name

Determine the impulse (I), momentum change (Δp), momentum (p) and other values. A 7-ball collides with the 8-ball. A moving medicine ball is caught by a girl on ice skates.

Momentum, Impulse and Momentum Change

Physics 30 Worksheet # 1: Momentum 1. Calculate the momentum of a 1.60×10^3 kg car traveling at 20.0 m/s. 2. ... Physics 30 Worksheet # 2: Impulse 1. A force of 20.0 N is applied to a 3.00 kg object for 4.00 seconds. Calculate the impulse experienced by the object. 2. A 1200 kg car traveling at 20.0 m/s speeds up to 30.0 m/s.

Physics 30 Worksheet # 1: Momentum

Momentum & Impulse Worksheet 1 7. Momentum and Impulse WKSHT 7.1 1. A deer with a mass of 146 kg is running head on toward you with a speed of 17 m/s. You are going north. Find the momentum of the deer. 2. A .5 kg football is thrown with a velocity of 15 m/s to the right. A stationary receiver catches the ball and brings it to rest in .02 seconds.

Momentum and Impulse Worksheet 1 - humbleisd.net

Impulse: Momentum of the bike: Momentum of the rider: B $V_o = 30$ m/s $m = 0.150$ kg Calvin catches the ball $V_o = 20$ m/s $V = 35$ m/s Line drive - straight back at the pitcher. BEFORE AFTER C $m = 0.150$ kg $V_o = 10$ m/s D $m = 0.1$ kg The snow ball hits Susie on the head and sticks there. Impulse & Momentum Worksheets pg 1

Impulse & Momentum Worksheets pg 1 - mrwaynesclass.com

Physics Impulse Momentum Worksheet 1 Name: _____ Pd: _____ Try the following three problems. For all problems round _____ from 9.8 m/s² to 10 m/s² 1. A 10 N force is applied to a 10 kg mass for three seconds. The mass starts from rest. a. Determine the acceleration of the mass b. Determine the final velocity 2.

Physics Impulse Momentum Worksheet 1 Name: Pd:

5 Momentum 53 5-1 Impulse and Momentum Vocabulary Momentum: A measure of how difficult it is to stop a moving object. momentum (mass)(velocity) or $p = m v$ If the momentum of an object is changing, as it is when a force is exerted to start it or stop it, the change in momentum can be found by looking at the change in mass and velocity during the ...

Impulse and Momentum Worksheet Answers (1).pdf - 5

momentum. A change in momentum is known as an impulse. The vector quantity for impulse is represented by the letter Δp , and since it's a change in momentum, its units can be one the same as those for momentum, [kg·m/s], and can also be written as a Newton-second [N·s]. Note: In sports, impulse is called the "follow through" Impulse

12.4 Momentum and Impulse - Tecumseh Local Schools

Physics P Worksheet 9.1 Momentum and Impulse Worksheet 9.1 Momentum and Impulse 1. The momentum of a 3000 kg truck is $6.36 \times 10^4 \text{ kg}\cdot\text{m/s}$. At what speed is the truck traveling? 2. A 0.40 kg object is moving on a frictionless surface with a speed of 30 m/s. A force of 2.0 N

Worksheet 9.1 Impulse and Momentum - Trunnell's Physics

Equation Gives you! If you know! Momentum Mass and Speed Mass Momentum and Speed Speed Momentum and Mass 22.) A steel ball whose mass is 2.0 kg is rolling at a rate of 2.8 m/s.

Momentum Worksheet - St. Francis Preparatory School

Physics Worksheet 1. Momentum p Momentum and Impulse = mass x velocity. = $m \times v$. 2. A 1000 kg car is moving at 20 m/s. The momentum of the car is: 20000 kg m/s

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