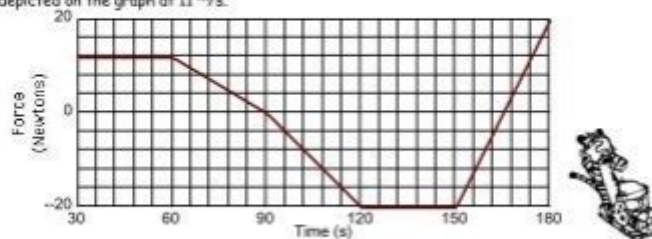


Impulse & Momentum Worksheets

pg 5

K

Calvin & Hobbes, 45 kg, are sleigh riding down a hill. The hill they are on is irregular shaped, slopes up and down and has snow of varying depths and textures. Below is a force vs time graph of the force acting on their sled. The initial velocity when they hit the part of the hill depicted on the graph at 11 m/s .



- How do you find the impulse from 30 to 60 seconds?
- Which 30 seconds time interval contains a net negative impulse?
- What is the impulse from 30 to 60 seconds?
- What is the impulse from 90 to 120 seconds?
- What is the impulse from 150 to 180 seconds?
- Using the information from text above combined with the graph, calculate the final velocity at the 60 second mark.
- Calculate the final velocity at the 120 second mark.
- Calculate the final velocity at the end of the ride?
- What was the average velocity for the entire ride?
- What is the (average) acceleration over the entire ride?
- What must the initial velocity be so that Calvin and Hobbes come to a rest at the end of the ride?

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Impulse And Momentum Worksheets Calvin Hobbes Answers

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Impulse And Momentum Worksheets Calvin

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

Impulse & Momentum Worksheets pg 1

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Unformatted text preview: IMPULSE AND MOMENTUM Name 1. Calvin is walking down the street at 4.0km/hr. If he has a mass of 70. Kg, what is his momentum? (Caution: watch units!) 2. How fast must a 20.0kg child be moving on her tricycle to have the same momentum as a 1.20 x 103kg car traveling at 2.00m/s? 3. On April 15, 1912; the luxury cruise ...

Impulse and Momentum Worksheet - IMPULSEANDMOMENTUM Name 1 ...

Impulse & Momentum Worksheets pg 5 K Calvin & Hobbes, 45 kg, are sleigh riding down a hill. The hill they are on is irregular shaped, slopes up and down and has snow of varying depths and textures. Below is a force vs time graph of the force acting on their sled. The initial velocity when they hit the part of the hill depicted on the graph at 11 m/s. 20 0-20 30 60 90 120 Time (s) ...

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Impulse Momentum Worksheets Pg 1. Impulse Momentum Of The Bike Momentum Of The Rider $B V_o 30 \text{ M S M } 0.150 \text{ Kg}$ Calvin Catches The Ball $V_o 20 \text{ M S V } 35 \text{ M S}$ Line Drive Straight Back At The Pitcher Before After $C M 0.150 \text{ Kg}$ $V_o 10 \text{ M S D M } 0.1 \text{ Kg}$ The Snow Ball Hits Susie On The Head And Sticks There Impulse Momentum Worksheets Pg 1. Physics Worksheet ...

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Impulse-Momentum Theorem (10:45) SHOW THE STEPS. 1. Derive the Impulse-Momentum Theorem. (minute 0:40) 2. A tow truck applies a force of 2000 N on a 2000 kg car for a period of 3 seconds. (minute 2:17) a) What is the magnitude in of the change in the car's momentum? b) If the car starts at rest, what will be its speed after 3 seconds? 3. A 2 kg body is initially traveling at a velocity of 40 m ...

Worksheets - Fowler's Physics Course

Momentum Impulse And Momentum Change Worksheet, Multiplication Worksheets K5, Momentum Impulse And Conservation Of Momentum Worksheet, Multiplication Worksheets Kumon, Chapter 7 Momentum And Impulse Worksheet, Worksheet Multiplying Large Numbers, Impulse And Change In Momentum Worksheet Part 1, Worksheet Long Multiplication, Impulse And Momentum Worksheet Elastic Collisions, Worksheet Lattice ...

Graphing Unit Rates Worksheet | Free Printables Worksheet

Momentum, Impulse, and Collision Review. Fill in the following UNITS only table . Quantity . Mass Velocity Force . Units kg m/s N . Name: ____ Quantity . Kinetic Energy Potential Energy Momentum . J J Units Kg m/s . Weight . N . Impulse . B ____ 2) The quantity 8 kg m/s is equivalent to which of the following A) 8 N . B) 8 N * s . C) 8 N / s D) 8 N / m ____ C ____ 3) A force applied over time ...

Unit 8 momentum review key - studylib.net

Physics 30 Worksheet # 1: Momentum 1. Calculate the momentum of a 1.60 x 103 kg car traveling at 20.0 m/s. 2. Calculate the momentum of a 2.50 x 103 kg truck traveling at 110 km/h. 3. How fast is a 1.50 kg ball moving if it has a momentum of 4.50 kg.m/s? 4. A 75.0 g ball is rolling at a speed of 57.0 cm/s. Calculate the ball's momentum. 5. A 5.00 kg ball accelerates at a rate of 2.00 m/s² ...

Physics 30 Worksheet # 1: Momentum

Physics 1020 Laboratory #5 Momentum and Impulse 25 Prelab Questions These questions need to be completed before entering the lab. Please show all workings. Prelab 1 If the mass of an object is 0.412 de and its velocity is 0.436 ,/f right, what is the momentum? Note: Consider the positive = g=hf to be to the right. Give your

Prelab Questions Marker's Initials

Honors Physics Momentum, Impulse and Conservation of Momentum Part 1: Vocabulary l. Momentum is (RSS in motion. is equal to the change in momentum. 3. A(n) collision occurs when objects bounce off of each other. collision occurs when objects stick together after impact. 5. A(n) occurs when objects break apart. 6. The Law of Conservation of Momentum states -----7=-The area under the curve ...

2016-11-14 16-59

Impulse is also given by the product of the resultant force and the period of time the force is acting on an object: $F\Delta t = \Delta p$. Thus the unit of measurement of impulse can also be expressed as $N\cdot s$. The mass of an object is usually intact and does not change except in an explosion. Therefore, the change in momentum is usually as a result of ...

MOMENTUM Momentum - learn.mindset.africa

This physics video tutorial provides an introduction to impulse and momentum. It discusses the impulse momentum theorem and the definition of force using new...

Introduction to Impulse & Momentum - Physics - YouTube

A Guide to Momentum and Impulse Teaching Approach In this series we investigate momentum and impulse. We calculate the momentum of a moving object and explain the relationship between net force and change in momentum for a variety of motions. In physics, the change in a quantity is defined as the final value minus the initial value

however learners often struggle to interpret what this means ...

A Guide to Momentum and Impulse - Mindset Learn

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Impulse The impulse J of a force is defined as the change in momentum Δp caused by that force. From Newton's Second Law, if F is constant $F = \Delta p/\Delta t$ Then $F \Delta t = \Delta p = J$ Example: 1.0 kg object falls under gravity. Calculate the impulse the object experiences due to its weight after falling for 10 s. KJF \$9.1 [98 kg m s⁻¹ downwards]

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