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Pearson Physics Solutions Unit V Chapter 9 Copyright © 2007 Pearson Education Canada 3 (b) 2. Given  $m_T = 390 \text{ kg}$   $p_G = 4.68 \times 10^3 \text{ kg}\cdot\text{m/s}$  [W] Required velocity of sled ( $v_G$ ) Analysis and Solution The momentum of the system is in the direction of the velocity of the system. So use the scalar form of  $p_G = mv_G$  to find the speed.  $p = m_T v$   $v = \frac{p}{m_T} = \frac{4.68 \times 10^3 \text{ kg}\cdot\text{m/s}}{390 \text{ kg}} = 12 \text{ m/s}$

Pearson Physics Level 30 Unit V Momentum and Impulse ...

Unit V Momentum and Impulse: Unit V Review Solutions Student Book pages 503–507 Vocabulary 1. momentum: vector quantity defined as the product of the mass of an object and its velocity. Momentum has units of kilogram-metres per second. impulse: vector quantity present when two or more objects interact. It is defined as the product of the net force on an object during the interaction and the interaction time. Impulse is also equal to the change in momentum of the object. Impulse has units of

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- To determine the momentum of a particle - To add time and study the relationship of impulse and momentum - To see when momentum is conserved and examine the implications of conservation - To use momentum as a tool to explore a variety of collisions - To understand the center of mass

Momentum, Impulse, and Collisions

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Momentum is conserved in all isolated collisions. In a perfectly elastic collision in which potential energy is not changing, the kinetic energy must also be conserved.

PHYSICS Chapter 11 Impulse and Momentum

Strategy We need to get each particle's momentum, then form a vector sum to get the total. Let's take  $m_1 = 2.0 \text{ kg}$ ,  $v_1 = 3.0 \text{ m/s}$ ,  $m_2 = 3.0 \text{ kg}$ ,  $v_2 = 1.5 \text{ m/s}$ ,  $m_3 = 4.0 \text{ kg}$ , and  $v_3 = 2.0 \text{ m/s}$ . Solution

esm\_walker\_physics\_2\_cmsonly|Linear Momentum and ...

minutes based on the description of the situation. No external force acts on the system (astronaut plus wrench), so the total momentum is constant. Since the final momentum (wrench plus astronaut) must be zero, we have final momentum = initial momentum = 0. Then,  $m_w v_w + m_a v_a = 0$  thus,  $v_a = -m_w v_w / m_a = -(0.500\text{kg})(20.0\text{m/s})/(80.0\text{kg}) = -0.125 \text{ m/s}$

Physics Tutorial Room: Linear Momentum, Impulse and ...

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We are given the driver's weight, his initial and final velocities, and the time of collision; we are asked to calculate a force. Impulse seems the right way to tackle this; we can combine Equation \ref{9.5} and Equation \ref{9.6}. Solution. Define the +x-direction to be the direction the car is initially moving.

9.3: Impulse and Collisions (Part 1) - Physics LibreTexts

AHS Physics - Unit 4 Impulse Momentum and Collision Conceptual Questions from Pearson 1. Rank in order, from largest to smallest, the momenta of the objects below. Rank in order, from largest to smallest, the momenta of the objects below.

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