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Answers To Momentum Page

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Chapter 8 Momentum Exercises 81 Momentum (page 125) Class Date the mass of an object multiplied by its velocity 1 Define momentum 2 What is the equation for momentum? momentum mass velocity = rnv 3 A moving object can have a large momentum if it has a(n) large mass , a(n) high speed or both 82 Impulse Changes Momentum (pages 125-129) 4

Momentum and Its Conservation - Mr. Nguyen's Website

91 Impulse and Momentum pages 229-235 page 235 6 Momentum Is the momentum of a car traveling south different from that of the same car when it travels north at the same speed? Draw the momentum vectors to support your answer Yes, momentum is a vector quantity, and the momenta of the two cars are in opposite directions 78"103 N "" 980 m

MOMENTUM QUESTIONS - Santa Monica College

MOMENTUM QUESTIONS 1 Which has greater momentum: a train at rest or a moving skateboard? Since the train is not moving, it has zero momentum The skateboard, as long as it has some speed, will have more momentum, since $p = m \cdot v$ 2 What are the ways to increase impulse?

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Practice Page 1 A moving car has momentum If it moves twice as fast, its momentum a much is 2 Two cars, one twice as heavy as the other, move down a hill at the same speed Compared to the lighter car, the momentum of the heavier car is 3 The recoil momentum of a cannon that kicks is (more than) (less than) the momentum of the cannonball it

IMPULSE AND MOMENTUM - New Providence School District

AP Physics 1 - Momentum and Impulse IMPULSE AND MOMENTUM REVIEW The momentum of an object is the product of its mass and velocity If you want to change the momentum of an object, you must apply an impulse, which is the product of force and the time during which the force acts

Impulse & Momentum Worksheets pg 1

Momentum, p , is the product of mv The mass and velocity must be put in standard SI units
 1 What is the momentum of a 70 kg runner traveling at 10 m /s? 2 What is the momentum of a 800 kg car traveling at 20 m /s? 3 What is the momentum of a 47 gram tennis ball that is traveling at 40 m /s? 4

Momentum and Collisions Name: Lesson 2 Momentum and ...

Momentum and Collisions © The Physics Classroom, 2009 Page 2 2 A 21-kg brick is placed gently upon a 29-kg cart originally moving with a speed of 26 cm/s

Physics 30 Worksheet # 1: Momentum

B Dickie 1 Physics 30 Worksheet # 1: Momentum 1 Calculate the momentum of a 160 x 103 kg car traveling at 200 m/s 2 Calculate the momentum of a 250 x 103 kg truck traveling at 110 km/h 3 How fast is a 150 kg ball moving if it has a momentum of 450 kgm/s?

Momentum, Impulse and Momentum Change

Calculate the momentum value of (Include appropriate units on your answers) a a 20-kg brick moving through the air at 12 m/s b a 35-kg wagon moving along the sidewalk at 12 m/s 7 With what velocity must a 053-kg softball be moving to equal the momentum of a 031-kg baseball 2009 Page 7 Action-Reaction and Momentum

Concept-Development 9-3 Practice Page

Momentum and Energy Bronco Brown wants to put $Ft = \Delta mv$ to the test and try bungee jumping Bronco leaps from a high cliff and experiences free fall for 3 seconds Then the bungee cord begins to stretch, reducing his speed to zero in 2 seconds Fortunately, the cord stretches to its maximum length just short of the ground below Fill in the

Problems and Solutions Manual - Surrey Schools

The Problems and Solutions Manual is a supplement of Glencoe's Physics: Principles and Problems The manual is a comprehensive resource of all student text problems and solutions Practice Problems follow most Example Problems Answers to these problems are found in the margin of the Teacher Wraparound Edition Complete solutions to these

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Motion and Momentum (pages 372-377) This section describes action-reaction forces and how the momentum of objects is determined Reading Strategy (page 372) Summarizing As you read about momentum in this section, complete the concept map to organize what ...

UNIT HOMEWORK MOMENTUM ANSWER KEY

UNIT HOMEWORK MOMENTUM ANSWER KEY MOMENTUM FORMULA & STUFF FROM THE PAST: $p = m v$, $TKE = \frac{1}{2}mv^2$, $d = v t$ 1 An ostrich with a mass of 146 kg is running to the right with a ...

Action-Reaction and Momentum Conservation

17 The following two systems are isolated systems The vector nature of momentum is depicted by the diagram that shows momentum vectors for the two colliding objects before the collision Express your understanding of momentum conservation by drawing and labeling the magnitude of the after-collision momentum vector a

Physics 2A Chapter 9: Momentum - Cabrillo College

Physics 2A Chapter 9: Momentum "The answers you receive depend upon the questions you ask" - Thomas Kuhn "Life is a mirror and will reflect back to the thinker what he thinks into it"

Worksheet: Momentum Word Problems

momentum of your brother and his skateboard if they are going 850 m/s? 10 A hockey player makes a slap shot, exerting a constant force of 250 N on the puck for 0.16 seconds. What is the magnitude of the impulse given to the puck? 11

Work - AP PHYSICS 1

An impulse is a force acting over some amount of time to cause a change in momentum. On the other hand, work is a ___force___ acting over some amount of ___distance___. 2009 Page 2 The amount of work (W) done on an object by a given force can be calculated using result in the same work___. Show your answers and explain. This conclusion is

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Air Track Answer Key - Loudoun County Public Schools

Air Track Answer Key Vocabulary: air track, approach velocity, conservation of energy, conservation of momentum, elasticity, kinetic energy, momentum, separation velocity, velocity. Prior Knowledge Questions (Do these BEFORE using the Gizmo) [Note: The purpose of these questions is to activate prior knowledge and get students thinking]