

# Holt Physics Momentum Problem 6a Answers

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### Holt Physics Momentum Problem 6a

#### Holt Physics Problem 6A

Holt Physics Problem 6A MOMENTUM PROBLEM An ostrich with a mass of 146 kg is running with a momentum of 2480 kg•m/s to the right What is the velocity of the ostrich? SOLUTION Given:  $m = 146 \text{ kg}$   $p = 2480 \text{ kg}\cdot\text{m/s}$  to the right Unknown:  $v = ?$  Use the equation for momentum to solve for  $v$   
 $p = mv$   $v = \frac{p}{m}$   $v = \frac{2480 \text{ kg}\cdot\text{m/s}}{146 \text{ kg}}$   $v = 170 \text{ m/s}$  to the right 2480 kg•m/s

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#### Holt Physics Problem 6A - Mr. Davis' Physics - Home

Holt Physics Problem 6A MOMENTUM P R O B L E M The world's most massive train ran in South Africa in 1989 Over 7 km long, the train traveled 8610 km in 2267 h Imagine that the distance was traveled in a straight line north If the train's average momentum was 732 3 10 8 kg •m/s to the north, what was its mass? SOLUTION

#### Holt Physics Problem 6A

54 Holt Physics Problem Workbook NAME \_\_\_\_\_ DATE \_\_\_\_\_ CLASS \_\_\_\_\_ Holt Physics Problem 6A MOMENTUM PROBLEM The world's most massive train ran in South Africa in 1989 Over 7 km long, the train traveled 8610 km in 2267 h Imagine that the distance was traveled in a straight line north If the train's average momentum was

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### **Holt Physics Problem 6B - Cobb Learning**

Problem 6B Ch 6-3 NAME \_\_\_\_ DATE \_\_\_\_ CLASS \_\_\_\_ Holt Physics Problem 6B FORCE AND MOMENTUM PROBLEM A student with a mass of 55 kg rides a bicycle with a mass of 11 kg A net force of 125 N to the east accelerates the bicycle and student during a time

### **Momentum and Its Conservation - PC\|MAC**

Physics Chapter 6 Momentum and Its Conservation Linear Momentum The velocity and mass of an object determine what is needed to change its motion Linear Momentum ( $p$ ) is the product of mass and velocity  $p = mv$  Unit is kg m/s Example 1 Find the magnitude of the momentum of each cart shown below, before the collision Example 1 Example 1 Find the magnitude of the momentum of each cart ...

### **PROBLEM WORKBOOK - AP-SAT Tutorial**

Holt Physics Problem Workbook This workbook contains additional worked-out samples and practice problems for each of the problem types from the Holt Physicstext Contributing Writers Boris M Korsunsky Physics Instructor Science Department Northfield Mount Hermon School Northfield, MA Angela Berenstein Science Writer Urbana, IL John Stokes

### **Momentum Worksheet - St. Francis Preparatory School**

24) On April 15, 1912, the luxury cruise liner Titanic sank after running into an iceberg What was the cruise liner's speed when it collided with the ice berg if it had a mass of  $423 \times 10^8$  kg ship and a momentum of  $49 \times 10^9$  kg·m/s? Looking for

### **Holt Physics Problem 6B**

56 Holt Physics Problem Workbook NAME \_\_\_\_ DATE \_\_\_\_ CLASS \_\_\_\_ Holt Physics Problem 6B FORCE AND MOMENTUM P R O B L E M In 1993, a generator with a mass of  $124 \times 10^5$  kg was flown from Ger-many to a power plant in India on a Ukrainian-built plane This consti-

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SAMPLE PROBLEM 6A Momentum PROBLEM A 2250 kg pickup truck has a velocity of 25 m/s to the east What is the momentum of the truck?

SOLUTION Given:  $m = 2250$  kg  $v = 25$  m/s to the east Unknown:  $p = ?$  Use the momentum equation from page 208  $p = mv = (2250 \text{ kg})(25 \text{ m/s})$   $p = 56 \times 10^4$  kg·m/s to the east CALCULATOR SOLUTION Your calculator will give

### **Holt Physics Problem 6G - Hays High School**

68 Holt Physics Problem Workbook NAME \_\_\_\_ DATE \_\_\_\_ CLASS \_\_\_\_ Holt Physics Problem 6G ELASTIC COLLISIONS PROBLEM American juggler Bruce Sarafian juggled 11 identical balls at one time in 1992 Each ball had a mass of 0.20 kg Suppose two balls have an elastic head-

### **Assessment Chapter Test B - Weebly**

Holt Physics 6 Chapter Tests Chapter Test B continued PROBLEM 22 A sled is pulled at a constant velocity across a horizontal snow surface If a force of 80.1 N is being applied to the sled rope at an angle of  $53^\circ$  to the ground, what is the magnitude of the force of friction of the snow acting on the sled? 23 A farmhand attaches a 25-kg bale of hay to one end of a rope passing over a

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**Inelastic Collisions (ANSWER KEY) - Croom Physics**

Mr Croom's Physics Chapter 6: Momentum Page 1 of 3 Inelastic Collisions (ANSWER KEY) Solve the following problems 1 A train car of mass 5000 kg is moving along a track at 45 m/s It collides with another train car of mass 3500 kg that is moving along the track in the same direction at 12 m/s What is the velocity of the stuck-together cars

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**Appendix A: Answers to Selected Problems**

People's Physics Book 3e A-1 Appendix A: Answers to Selected Problems Ch 1: Units and Problem Solving 1a A person of height 5 ft 11 in is 180 m tall 1b The same person is 180 cm 2a 3 seconds = 1/1200 hours 2b  $3 \times 10^3$  ms 3 875 mi/hr 4c if the person weighs 150 lb this is equivalent to 668 N 5 Pascals (Pa), which equals N/m<sup>2</sup>

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