

Sample Problem Set 1 Solutions

# Motion in One Dimension

## Teacher Notes and Answer Key

### ADDITIONAL PRACTICE B

#### Given:

1.  $v_1 = 0$  km/h or 0 m/s  
 $a_{avg} = 3.0 \text{ m/s}^2$   
 $\Delta t = 1.00 \text{ m/s}$

#### Solution:

$$v_2 = v_{avg} \Delta t + v_1 = (3.00 \text{ m/s}^2)(1.00 \text{ m/s}) \left( \frac{1000 \text{ m}}{1 \text{ m/s}} \right) + 0 \text{ m/s} = \boxed{3000 \text{ m/s}}$$

$$v_2 = 3000 \text{ m/s} = 3.00 \text{ km/s} \left( \frac{1000 \text{ m}}{1 \text{ m}} \right) \left( \frac{1 \text{ km}}{1000 \text{ m}} \right) = \boxed{3.00 \text{ km/s}}$$

2.  $\Delta t = 2.0 \text{ m/s}$   
 $a_{avg} = 60.0 \text{ m/s}^2$   
 $v_1 = 0 \text{ m/s}$

$$v_2 = v_{avg} \Delta t + v_1 = (60.0 \text{ m/s}^2)(2.0 \text{ m/s}) \left( \frac{1000 \text{ m}}{1 \text{ m/s}} \right) + 0 \text{ m/s} = \boxed{1.2 \text{ km/s}}$$

3.  $\Delta t = 40.0 \text{ s}$   
 $a_{avg} = 0.20 \text{ m/s}^2$   
 $v_1 = 0 \text{ m/s}$

$$v_2 = v_{avg} \Delta t + v_1 = (0.20 \text{ m/s}^2)(40.0 \text{ s}) + 0 \text{ m/s} = \boxed{8.00 \text{ m/s}}$$

4.  $\Delta t = 20 \text{ m/s}$   
 $\Delta t = 3.00 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{20 \text{ m/s}}{3.00 \text{ s}} = \boxed{6.67 \text{ m/s}^2}$$

$v_1 = 0.00 \text{ m/s}$   
 $v_2 = 6.6 \text{ m/s}$   
 $\Delta t = 20.0 \text{ s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{6.6 \text{ m/s} - 0.00 \text{ m/s}}{20.0 \text{ s}} = \frac{6.6 \text{ m/s}}{20.0 \text{ s}} = \boxed{0.33 \text{ m/s}^2}$$

5.  $\Delta t = 1.0 \text{ m/s} \left( \frac{1000 \text{ m}}{1 \text{ m/s}} \right)$   
 $= 1.00 \times 10^3 \text{ m}$   
 $\Delta t = 40.0 \text{ s}$   
 $a_{avg} = 0.25 \text{ s}$   
 $v_1 = 0 \text{ m/s}$   
 $v_2 = 10.0 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{1.00 \times 10^3 \text{ m}}{40.0 \text{ s}} = \boxed{2.50 \text{ m/s}^2}$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t_{avg}} = \frac{10.0 \text{ m/s} - 0.00 \text{ m/s}}{40.0 \text{ s}} = \frac{10.0 \text{ m/s}}{40.0 \text{ s}} = \boxed{0.25 \text{ m/s}^2}$$

6.  $\Delta t = 1.00 \times 10^3 \text{ m, backward}$   
 $= -1.00 \times 10^3 \text{ m}$   
 $\Delta t = 1.0 \text{ s}$   
 $\Delta t = 2.00 \text{ s}$   
 $v_1 = 0 \text{ m/s}$   
 $v_2 = 0 \text{ m/s}$

$$a_{avg} = \frac{\Delta v}{\Delta t} = \frac{-1.00 \times 10^3 \text{ m}}{2.00 \text{ s}} = -5.00 \text{ m/s}^2$$

$$a_{avg} = \frac{v_2 - v_1}{\Delta t} = \frac{0.00 \text{ m/s} - 0 \text{ m/s}}{2.00 \text{ s}} = \boxed{0.00 \text{ m/s}^2}$$

# Holt Physics Practice Answers 4c

**David Kirk**

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### **Table of Contents Holt Physics Practice Answers 4c**

1. Understanding the eBook Holt Physics Practice Answers 4c
  - The Rise of Digital Reading Holt Physics Practice Answers 4c
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Practice Answers 4c
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Holt Physics Practice Answers 4c
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Practice Answers 4c
  - Personalized Recommendations
  - Holt Physics Practice Answers 4c User Reviews and Ratings
  - Holt Physics Practice Answers 4c and Bestseller Lists

5. Accessing Holt Physics Practice Answers 4c Free and Paid eBooks
  - Holt Physics Practice Answers 4c Public Domain eBooks
  - Holt Physics Practice Answers 4c eBook Subscription Services
  - Holt Physics Practice Answers 4c Budget-Friendly Options
6. Navigating Holt Physics Practice Answers 4c eBook Formats
  - ePub, PDF, MOBI, and More
  - Holt Physics Practice Answers 4c Compatibility with Devices
  - Holt Physics Practice Answers 4c Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Holt Physics Practice Answers 4c
  - Highlighting and Note-Taking Holt Physics Practice Answers 4c
  - Interactive Elements Holt Physics Practice Answers 4c
8. Staying Engaged with Holt Physics Practice Answers 4c
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Holt Physics Practice Answers 4c
9. Balancing eBooks and Physical Books Holt Physics Practice Answers 4c
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Holt Physics Practice Answers 4c
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Holt Physics Practice Answers 4c
  - Setting Reading Goals Holt Physics Practice Answers 4c
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Holt Physics Practice Answers 4c
  - Fact-Checking eBook Content of Holt Physics Practice Answers 4c
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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