Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

#### Projectile Motion Worksheet

1. Rank the vectors from the largest to smallest vertical (y) component:

a)  $v = 10 \text{ m/s}, \theta = 25^{\circ}$ 

b)  $^{V} = 10 \text{ m/s}, ^{\theta} = 40^{\circ}$ 

c) v = 10 m/s, θ = 55°

d)  $^{V} = 10 \text{ m/s}, ^{\theta} = 70^{\circ}$ 

Why does a bowling ball move without acceleration when it rolls along a bowling alley?

3. In the absence of air resistance, why does the horizontal component of velocity for a projectile such as a bullet remain constant while the vertical component changes?

4. How does the downward component of projectile motion compare with free fall motion?

5. Use terms we learned about one dimensional motion to describe projectile motion:

a) vertical component -

b) horizontal component -

A ball is thrown horizontally at a height of 2.2 meters at a velocity of 65 m/s.

Assume no air resistance.

a) How long until the ball re

a) How long until the ball reaches the ground?

b) How far did the ball travel horizontally when it hit the ground?

A bullet is fired horizontally at a height of 1.3 meters at a velocity of 950 m/s.

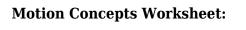
Assume no air resistance.

a) How long until the ball reaches the ground?

b) How far did the ball travel horizontally when it hit the ground?

# **Motion Concepts Worksheet**

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# **Table of Contents Motion Concepts Worksheet**

- 1. Understanding the eBook Motion Concepts Worksheet
  - The Rise of Digital Reading Motion Concepts Worksheet
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Motion Concepts Worksheet
  - 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 Motion Concepts Worksheet
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Motion Concepts Worksheet
  - Personalized Recommendations
  - Motion Concepts Worksheet User Reviews and Ratings
  - Motion Concepts Worksheet and Bestseller Lists
- 5. Accessing Motion Concepts Worksheet Free and Paid eBooks
  - Motion Concepts Worksheet Public Domain eBooks
  - Motion Concepts Worksheet eBook Subscription Services
  - Motion Concepts Worksheet Budget-Friendly Options

- 6. Navigating Motion Concepts Worksheet eBook Formats
  - o ePub, PDF, MOBI, and More
  - Motion Concepts Worksheet Compatibility with Devices
  - Motion Concepts Worksheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Motion Concepts Worksheet
  - Highlighting and Note-Taking Motion Concepts Worksheet
  - Interactive Elements Motion Concepts Worksheet
- 8. Staying Engaged with Motion Concepts Worksheet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Motion Concepts Worksheet
- 9. Balancing eBooks and Physical Books Motion Concepts Worksheet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Motion Concepts Worksheet
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Motion Concepts Worksheet
  - Setting Reading Goals Motion Concepts Worksheet
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Motion Concepts Worksheet
  - Fact-Checking eBook Content of Motion Concepts Worksheet
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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