

Name: _____
Miss Charney

Date: _____
Physical Science

Motion & Forces Review Sheet

Practice Math Problems:

1. If you walked 20m, took a book from a library table, turned around and walked back to your seat, what are the distance traveled and displacement?



$$\text{Distance} = 20\text{m} + 20\text{m} = 40 \text{ meters}$$

$$\text{Displacement} = 0 \text{ (you ended up where you began)}$$

2. Explain why a passenger who is not wearing a safety belt will likely hit the windshield in a head-on collision.

An object (the passenger) in motion will stay in motion, unless acted on by an unbalanced force (the windshield).

3. A satellite's speed is 10,000 m/s. After 1 min, it is 5,000 m/s. What is the satellite's acceleration?

$$v_i = 10,000\text{m/s}$$

$$v_f = 5,000\text{m/s}$$

$$t = 1 \text{ min} = 60 \text{ s}$$

$$a = ?$$

$$a = \frac{v_f - v_i}{t}$$

$$a = \frac{5,000 - 10,000}{60}$$

$$a = \frac{-5,000}{60}$$

$$a = -83.3 \text{ m/s}^2$$

4. Sound travels at a speed of 330 m/s. How long does it take for the sound of thunder to travel 1485 m?

$$t = ?$$

$$s = 330 \text{ m/s}$$

$$d = 1,485\text{m}$$

$$s = \frac{d}{t}$$

$$t = \frac{d}{s}$$

$$t = \frac{1485}{330}$$

$$t = 4.5\text{s}$$

5. Find your mass if a scale on Earth reads 650 N when you stand on it.

$$m = ?$$

$$W = 650\text{N}$$

$$g = 9.8 \text{ m/s}^2$$

$$W = mg$$

$$m = \frac{W}{g}$$

$$m = \frac{650}{9.8}$$

$$m = 66.3\text{kg}$$

Science Review Forces Section Answer Key

CO Houle



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Table of Contents Science Review Forces Section Answer Key

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

6. Navigating Science Review Forces Section Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Science Review Forces Section Answer Key Compatibility with Devices
 - Science Review Forces Section Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Review Forces Section Answer Key
 - Highlighting and Note-Taking Science Review Forces Section Answer Key
 - Interactive Elements Science Review Forces Section Answer Key
8. Staying Engaged with Science Review Forces Section Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Review Forces Section Answer Key
9. Balancing eBooks and Physical Books Science Review Forces Section Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Review Forces Section Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Science Review Forces Section Answer Key
 - Setting Reading Goals Science Review Forces Section Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Science Review Forces Section Answer Key
 - Fact-Checking eBook Content of Science Review Forces Section Answer Key
 - 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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