

Physical Science Motion and Forces Worksheet

1. What is the force on an object that goes from 35 m/s to 85 m/s in 20 seconds and has a mass of 148 kg?
2. Calculate the force on an object that has a mass of 12 kg and an acceleration of 4 m/s^2 .
3. During a race, a sprinter increases from 5.0 m/s to 7.5 m/s over a period of 1.25 s. What is the sprinter's average acceleration during this period?
4. A motorcycle has a mass of 250 kg and a velocity of 68 m/s, what is its momentum?
5. A 3,000-N force acts on a 200-kg object. The acceleration of the object is
6. A truck travels to and from a stone quarry that is located 2.5 km to the east. What is its distance? What is its displacement?
7. A cross-country runner runs 10 km in 40 minutes. What is his average speed?
8. A runner went from 6 m/s to 2 m/s in 2 seconds, what was his acceleration?
9. A dog travels 250 meters east in 8 seconds. What is the velocity of the dog?
10. A large truck loaded with scrap steel weighs 14 metric tons and is traveling north on the interstate heading for Chicago. It has been averaging 48 km/h for the journey and has traveled over 1450 km so far. *It has just stopped* to refuel. What is its current momentum?
11. James rode his bike 0.65 hours and traveled 8.45 km. What was his speed?
12. A 10-kg wagon has a speed of 25 m/s. What is its momentum?
13. A dog travels north for 18 meters, east for 8 meters, south for 27 meters and then west for 8 meters. What is the distance the dog traveled and what is the displacement of the dog?
14. Brittany drove at a speed of 85 km / hr south for 4 hours. How far did she travel?
15. What is the mass of an object that has a force of 89 N and an acceleration of 25 m/s^2 ?
16. What is the force acting on an object with a mass of 2489 kg and an acceleration of 6.25 m/s^2 ?
17. The driver of a pickup truck drove at a velocity of 75.0 km/h for 33 minutes. What distance did the bus travel?
18. A high speed train travels with an average speed of 227 km/h. The train travels for 2 h. How far does the train travel?
19. A 300-N force acts on a 25-kg object. The acceleration of the object is
20. A 10.0 kg dog chasing a rabbit north at 6.0 m/s has a momentum of
21. Newton's first law of motion is also called the law of ____.
22. The statement "to every action there is an equal and opposite reaction" is ____.
23. The law that states that the unbalanced force acting on an object equals the object's mass times its acceleration is ____.
24. Which of the following best illustrates balanced forces? a) a rock falling to the ground b) a stretched rubber band being held between two hands c) a person lifting a heavy box off of the ground d) a crash between a large truck and a train
25. ____ forces acting on an object cause the object to accelerate.

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Table of Contents Physical Science If8767 Answers Key Page 15

1. Understanding the eBook Physical Science If8767 Answers Key Page 15
 - The Rise of Digital Reading Physical Science If8767 Answers Key Page 15
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science If8767 Answers Key Page 15
 - 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 Physical Science If8767 Answers Key Page 15
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science If8767 Answers Key Page 15

- Personalized Recommendations
 - Physical Science If8767 Answers Key Page 15 User Reviews and Ratings
 - Physical Science If8767 Answers Key Page 15 and Bestseller Lists
5. Accessing Physical Science If8767 Answers Key Page 15 Free and Paid eBooks
 - Physical Science If8767 Answers Key Page 15 Public Domain eBooks
 - Physical Science If8767 Answers Key Page 15 eBook Subscription Services
 - Physical Science If8767 Answers Key Page 15 Budget-Friendly Options
 6. Navigating Physical Science If8767 Answers Key Page 15 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science If8767 Answers Key Page 15 Compatibility with Devices
 - Physical Science If8767 Answers Key Page 15 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science If8767 Answers Key Page 15
 - Highlighting and Note-Taking Physical Science If8767 Answers Key Page 15
 - Interactive Elements Physical Science If8767 Answers Key Page 15
 8. Staying Engaged with Physical Science If8767 Answers Key Page 15
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science If8767 Answers Key Page 15
 9. Balancing eBooks and Physical Books Physical Science If8767 Answers Key Page 15
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science If8767 Answers Key Page 15
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science If8767 Answers Key Page 15
 - Setting Reading Goals Physical Science If8767 Answers Key Page 15
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science If8767 Answers Key Page 15

- Fact-Checking eBook Content of Physical Science If8767 Answers Key Page 15
- 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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