

Physical Science Motion and Forces Worksheet

1. What is the force on an object that goes from 3.5 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/s².
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 it's 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 5 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 meters tons and is traveling north on the interstate heading for Chicago. It has been averaging 48 km/h for the journey and has travelled 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/s²?
16. What is the force acting on an object with a mass of 2489 kg and an acceleration of 6.25 m/s²?
17. The driver of a pickup truck drove at a velocity of 75.0 km/hr for 35 minutes. What distance did the bus travel?
18. A high speed train travels with an average speed of 217 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.
26. Sally sits on a rock. Her weight is an action force. Describe its reaction force.
27. Friction is a force that _____ motion between two surfaces that are touching each other.
28. At the same speed, a bowling ball is harder to stop than a soccer ball because the bowling ball has greater _____.
29. Why is your weight less on the Moon than on Earth, but your mass is the same?
30. The size of the gravitational force between two objects depends on their _____ and _____.
31. The law that states that every object maintains constant velocity unless acted on by an unbalanced force is _____.
32. A tug-of-war that results in one team pulling the other across the line is an example of ~~_____ forces~~.
33. 1. An object in motion at a constant velocity will change its motion only if a(n) _____ force acts on it.
34. The law that states that for every action force there is an equal and opposite reaction force is _____.

Physical Science Motion And Forces Edgenuity Answers

R Sanford



Physical Science Motion And Forces Edgenuity Answers:

The book delves into Physical Science Motion And Forces Edgenuity Answers. Physical Science Motion And Forces Edgenuity Answers is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science Motion And Forces Edgenuity Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Motion And Forces Edgenuity Answers
 - Chapter 2: Essential Elements of Physical Science Motion And Forces Edgenuity Answers
 - Chapter 3: Physical Science Motion And Forces Edgenuity Answers in Everyday Life
 - Chapter 4: Physical Science Motion And Forces Edgenuity Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Physical Science Motion And Forces Edgenuity Answers. The first chapter will explore what Physical Science Motion And Forces Edgenuity Answers is, why Physical Science Motion And Forces Edgenuity Answers is vital, and how to effectively learn about Physical Science Motion And Forces Edgenuity Answers.
 3. In chapter 2, the author will delve into the foundational concepts of Physical Science Motion And Forces Edgenuity Answers. This chapter will elucidate the essential principles that need to be understood to grasp Physical Science Motion And Forces Edgenuity Answers in its entirety.
 4. In chapter 3, the author will examine the practical applications of Physical Science Motion And Forces Edgenuity Answers in daily life. The third chapter will showcase real-world examples of how Physical Science Motion And Forces Edgenuity Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Physical Science Motion And Forces Edgenuity Answers in specific contexts. The fourth chapter will explore how Physical Science Motion And Forces Edgenuity Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Physical Science Motion And Forces Edgenuity Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Motion And Forces Edgenuity Answers.

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