

NEWTON'S LAWS PRACTICE PROBLEMS

Answer the following questions in your science notebook. Show all of your work for math problems (equation, plug-in numbers, box answer). Restate the question in your answer for answers that you explain in words.

NET FORCE & NEWTON'S 1ST LAW OF MOTION

1. Describe the motion of the race car shown in the graphic to the right. Assume the car is moving forward. Is it speeding up or slowing down?

slowing down

2. Find the net force on each box.



3. You weigh a bear by making him stand on four scales as shown. Draw a free-body diagram showing all the forces acting on the bear. If his weight is 1,500 newtons, what is the reading on the fourth scale?



550 N

4. A bowling ball has a mass of 6 kilograms. A tennis ball has a mass of 0.06 kilogram. How much inertia does the bowling ball have compared to the tennis ball?

bowling ball has 100x more inertia

5. Make a free-body diagram of someone pushing a refrigerator that shows:
a. A net force of 100 N with the refrigerator being pushed to the right.
b. The refrigerator in equilibrium.



NEWTON'S 2ND LAW OF MOTION

6. A 100 kg bag of sand has a weight on 100 N. When dropped its acceleration is what?

$$F = ma \quad 100\text{ N} = (100\text{ kg})a \quad a = 100\text{ N} / 100\text{ kg} \quad a = 1\text{ m/s}^2$$

7. What is the net force required to give an automobile of mass 1600 kg an acceleration of 4.5 m/s²?

$$F = ma \quad F = (1600\text{ kg})(4.5\text{ m/s}^2) \quad F = 7,200\text{ N}$$

8. What is the acceleration of a wagon of mass 20 kg if a horizontal force of 64 N is applied to it? (ignore friction)

$$F = ma \quad 64\text{ N} = (20\text{ kg})a \quad a = \frac{64\text{ N}}{20\text{ kg}} \quad a = 3.2\text{ m/s}^2$$

9. What is the mass of an object that is experiencing a net force of 200 N and an acceleration of 500 m/s²?

$$F = ma \quad 200\text{ N} = m(500\text{ m/s}^2) \quad m = \frac{200\text{ N}}{500\text{ m/s}^2} \quad m = 0.4\text{ kg}$$

10. During a test crash, an air bag inflates to stop a dummy's forward motion. The dummy's mass is 75 kg. If the net force on the dummy is 825 N toward the rear of the car, what is the dummy's deceleration?

$$F = ma \quad 825\text{ N} = (75\text{ kg})a \quad a = \frac{825\text{ N}}{75\text{ kg}} \quad a = 11\text{ m/s}^2$$

Newton's Law Practice Problems Answer Key

Greg Jacobs, Joshua Schulman



Newtons Law Practice Problems Answer Key:

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Table of Contents Newton's Law Practice Problems Answer Key

1. Understanding the eBook Newton's Law Practice Problems Answer Key
 - The Rise of Digital Reading Newton's Law Practice Problems Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Newton's Law Practice Problems 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 Newton's Law Practice Problems Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Newton's Law Practice Problems Answer Key
 - Personalized Recommendations
 - Newton's Law Practice Problems Answer Key User Reviews and Ratings
 - Newton's Law Practice Problems Answer Key and Bestseller Lists
5. Accessing Newton's Law Practice Problems Answer Key Free and Paid eBooks
 - Newton's Law Practice Problems Answer Key Public Domain eBooks
 - Newton's Law Practice Problems Answer Key eBook Subscription Services
 - Newton's Law Practice Problems Answer Key Budget-Friendly Options
6. Navigating Newton's Law Practice Problems Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Newton's Law Practice Problems Answer Key Compatibility with Devices
 - Newton's Law Practice Problems Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Newton's Law Practice Problems Answer Key
 - Highlighting and Note-Taking Newton's Law Practice Problems Answer Key
 - Interactive Elements Newton's Law Practice Problems Answer Key
8. Staying Engaged with Newton's Law Practice Problems Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Newton's Law Practice Problems Answer Key
- 9. Balancing eBooks and Physical Books Newton's Law Practice Problems Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Newton's Law Practice Problems Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Newton's Law Practice Problems Answer Key
 - Setting Reading Goals Newton's Law Practice Problems Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Newton's Law Practice Problems Answer Key
 - Fact-Checking eBook Content of Newton's Law Practice Problems 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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