



## KINETIC ENERGY



1. Use the following equation to help you complete the questions on this worksheet:

$$\text{Kinetic Energy (J)} = 0.5 \times \text{Mass (kg)} \times (\text{speed (m/s)})^2$$

- a. A car with a mass of 200kg travels at a speed of 60 m/s.  
Calculate the total kinetic energy of the car. [2 marks]
- b. A train with a mass of 2500kg travels at a speed of 200m/s.  
Calculate the total kinetic energy of the aeroplane. [2 marks]
- c. A man throws a ball with a mass of 5kg and travels at a speed of 15m/s.  
Calculate the total kinetic energy of the ball. [2 marks]
- d. A dog with a mass of 45kg is running through a field at a speed of 30m/s.  
Calculate the total kinetic energy of the dog. [2 marks]
- e. John throw a biscuit at a speed of 10m/s. The biscuit had a mass of 3kg.  
Calculate the total kinetic energy of the biscuit. [2 marks]
- f. A washing contains some t-shirts with a mass of 50kg. The washing is able to spin at 50m/s.  
Calculate the total kinetic energy of the t-shirts inside the washing machine. [2 marks]
- g. Tim flicked a 2kg elastic band from his hand. The band travelled at a speed of 50m/s.  
Calculate the total kinetic energy of the elastic band. [2 marks]
- h. The international space station travels around the Earth at a speed of 7.66km/s. It has a mass of 417,289kg.  
Calculate the total kinetic energy of the elastic band. [2 marks]
- i. The average speed a horse can run at is 44km/s and an average mass of 500000g.  
Calculate the total kinetic energy of an average horse when running. [3 marks]
- [4 marks]

# Energy Calculation Practice Answers

**Tobias Bleicker**



**Energy Calculation Practice Answers:**

## **Energy Calculation Practice Answers** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Energy Calculation Practice Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Energy Calculation Practice Answers**

1. Understanding the eBook Energy Calculation Practice Answers
  - The Rise of Digital Reading Energy Calculation Practice Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Energy Calculation Practice Answers
  - 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 Energy Calculation Practice Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Energy Calculation Practice Answers
  - Personalized Recommendations
  - Energy Calculation Practice Answers User Reviews and Ratings
  - Energy Calculation Practice Answers and Bestseller Lists

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