

dimensional analysis problems answer key

Dimensional analysis problems answer key is a vital resource for students and professionals alike, serving as a guide to understanding the complexities of dimensional analysis in physics and engineering. Dimensional analysis is a mathematical technique that studies the relationships between physical quantities by identifying their fundamental dimensions. It helps in converting units, checking the consistency of equations, and deriving relationships between different physical quantities. This article will delve into the principles of dimensional analysis, provide common problems, and present a comprehensive answer key to help reinforce the concepts.

Understanding Dimensional Analysis

Dimensional analysis is based on the idea that the dimensions of physical quantities can provide insight into their relationships. The primary dimensions in physics include:

- Length (L)
- Mass (M)
- Time (T)
- Electric current (I)
- Temperature (Θ)
- Amount of substance (N)
- Luminous intensity (J)

Each physical quantity can be expressed in terms of these fundamental dimensions. For example, velocity can be expressed as length per time (L/T), while acceleration is length per time squared (L/T^2).

The Importance of Dimensional Analysis

Dimensional analysis is essential for several reasons:

1. Unit Conversion: It helps in converting units from one system to another (e.g., from imperial to metric).
2. Equation Consistency: It ensures that equations are dimensionally consistent, an important aspect of valid physical laws.
3. Deriving Relationships: It aids in formulating equations based on the dimensions of the involved quantities.
4. Error Checking: It serves as a tool for identifying potential errors in calculations or experimental results.

Common Dimensional Analysis Problems

Let's explore some common problems that can be solved using dimensional analysis. These problems

vary in complexity and application, making them suitable for both beginners and advanced learners.

Problem 1: Unit Conversion

Convert 60 miles per hour to meters per second.

Solution Steps:

1. Recognize the conversion factors:

- 1 mile = 1609.34 meters
- 1 hour = 3600 seconds

2. Set up the conversion:

$$60 \text{ miles/hour} \times \frac{1609.34 \text{ meters}}{1 \text{ mile}} \times \frac{1 \text{ hour}}{3600 \text{ seconds}}$$

3. Calculate:

$$= 60 \times \frac{1609.34}{3600} \approx 26.82 \text{ m/s}$$

Problem 2: Dimensional Consistency

Show that the equation for gravitational potential energy ($U = mgh$) is dimensionally consistent.

Solution Steps:

1. Identify the dimensions:

- Mass (m) has dimensions [M].
- Gravitational acceleration (g) has dimensions [L/T²].
- Height (h) has dimensions [L].

2. Analyze the dimensions of (U):

$$U = [M][L/T^2][L] = [M][L^2/T^2]$$

3. Thus, the dimensions of gravitational potential energy are [M][L²/T²], confirming that the equation is dimensionally consistent.

Problem 3: Deriving Relationships

Using dimensional analysis, derive the relationship between force (F), mass (m), and acceleration

(a).

Solution Steps:

1. Recognize the dimensions of each quantity:

- Force (F): $[M][L/T^2]$
- Mass (m): $[M]$
- Acceleration (a): $[L/T^2]$

2. Set up a general relationship:

$$F = k \cdot m^a \cdot a^b$$

where (k) is a dimensionless constant, and (a) and (b) are exponents to be determined.

3. Substitute the dimensions into the equation:

$$[M][L/T^2] = [M]^a \cdot [L/T^2]^b$$

4. Equate the dimensions:

- For mass: $(1 = a)$
- For length: $(1 = b)$
- For time: $(-2 = -2b)$

5. Solve for (a) and (b) :

$$a = 1, \quad b = 1$$

6. Conclude:

$$F = k \cdot m^1 \cdot a^1 \implies F = k \cdot ma$$

In SI units, $(k = 1)$, hence $(F = ma)$.

Problem 4: Checking for Dimensional Errors

Given the equation $(v = u + at^2)$, identify if there is a dimensional inconsistency.

Solution Steps:

1. Identify the dimensions:

- Final velocity (v): $[L/T]$
- Initial velocity (u): $[L/T]$
- Acceleration (a): $[L/T^2]$
- Time (t): $[T]$

2. Analyze the terms in the equation:

- The first term (u) has dimensions $[L/T]$.

- The second term (at^2) :

$$\begin{aligned} &[L/T^2][T^2] = [L] \\ & \end{aligned}$$

3. Conclusion:

The dimensions on the left side ($[L/T]$) do not match the dimensions on the right side ($[L]$), indicating an error in the equation.

Answer Key for Common Dimensional Analysis Problems

Here is a concise answer key for the problems discussed:

1. Unit Conversion: 60 miles/hour = 26.82 m/s.
2. Dimensional Consistency: $(U = mgh)$ is dimensionally consistent as $([M][L^2/T^2])$.
3. Derived Relationship: $(F = ma)$.
4. Dimensional Errors: The equation $(v = u + at^2)$ is dimensionally inconsistent.

Conclusion

Dimensional analysis is a powerful tool that simplifies complex physical problems. It not only provides a method to verify equations and convert units but also aids in understanding the fundamental relationships between physical quantities. The problems and solutions outlined above serve as a foundation for mastering the art of dimensional analysis. Students and professionals can utilize this knowledge to enhance their problem-solving skills in physics, engineering, and various scientific fields. By practicing with the provided answer key, learners can gain confidence in their understanding and application of dimensional analysis in real-world scenarios.

Frequently Asked Questions

What is dimensional analysis and how is it used in solving problems?

Dimensional analysis is a mathematical technique used to convert one set of units to another by using conversion factors. It involves checking the dimensions of physical quantities to ensure that equations are dimensionally consistent, which helps in solving physics and engineering problems.

What are common mistakes to avoid when performing

dimensional analysis?

Common mistakes include ignoring the dimensions of constants, failing to convert all units to a consistent system, and misapplying conversion factors. It's crucial to ensure all terms in an equation have the same dimensions before solving.

How can dimensional analysis help in checking the validity of equations?

Dimensional analysis can help check the validity of equations by ensuring that both sides of the equation have the same dimensions. If they don't, it indicates an error in the equation, which can prompt a review of the assumptions or calculations made.

Where can I find answer keys for dimensional analysis problems?

Answer keys for dimensional analysis problems can often be found in textbooks, educational websites, and online forums dedicated to physics and engineering. Additionally, many online resources and platforms like Khan Academy and Coursera may provide guided solutions and answer keys.

What are some examples of dimensional analysis problems typically found in exams?

Examples of dimensional analysis problems include converting speeds from miles per hour to meters per second, determining the dimensions of physical constants, and verifying the units of derived equations in physics, such as those for acceleration or force.

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