

1.1 Numbers and units

Objectives: to know that a physical quantity is a number and unit - to use prefixes to make units bigger or smaller - to understand scientific notation.



When you make a measurement, you might get a result like the one above: a distance of 10 m. The complete measurement is called a **physical quantity**. It is made up of two parts: a number and a unit.

10 m really means $10 \times m$ (ten times metre), just as in algebra, $10x$ means $10 \times x$ (ten times x). You can treat the m just like a symbol in an algebraic equation. This is important when combining units.

Advanced units

5 m/s is a space-saving way of writing $5 \frac{m}{s}$.

But $5 \frac{m}{s}$ equals $5 m \frac{1}{s}$.

Also, $\frac{1}{s}$ can be written as s^{-1} . So the speed can be written as $5 m s^{-1}$.

This method of showing units is more common in advanced work.



Combining units

In the diagram above, the girl cycles 10 metres in 2 s. So she travels 5 metres every second. Her *speed* is 5 metres per second. To work out the speed, you divide the distance travelled by the time taken, like this:

$$\text{speed} = \frac{10 \text{ m}}{2 \text{ s}} \quad (\text{s is the symbol for second})$$

As m and s can be treated as algebraic symbols:

$$\text{speed} = \frac{10}{2} \cdot \frac{m}{s} = 5 \frac{m}{s}$$

To save space, $5 \frac{m}{s}$ is usually written as 5 m/s.

So m/s is the unit of speed.



Rights and wrongs

This equation is correct: $\text{speed} = \frac{10 \text{ m}}{2 \text{ s}} = 5 \text{ m/s}$

This equation is incorrect: $\text{speed} = \frac{10}{2} = 5 \text{ m/s}$

It is incorrect because the m and s have been left out. 10 divided by 2 equals 5, and not 5 m/s.

Strictly speaking, units should be included at *all* stages of a calculation, not just at the end. However, in this book, the 'incorrect' type of equation will sometimes be used so that you can follow the arithmetic without units which make the calculation look more complicated.

Tables and graphs

You may see table headings or graph axes labelled like this: distance or distance/m.

That is because the values shown are just numbers, without units. So:

If $\text{distance} = 10 \text{ m}$

Then $\frac{\text{distance}}{\text{m}} = 10$

Read Ndimma Ch1 3

Patrick Vollmar

Read Ndima Ma Ch1 3:

This book delves into Read Ndima Ma Ch1 3. Read Ndima Ma Ch1 3 is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Read Ndima Ma Ch1 3, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Read Ndima Ma Ch1 3
- Chapter 2: Essential Elements of Read Ndima Ma Ch1 3
- Chapter 3: Read Ndima Ma Ch1 3 in Everyday Life
- Chapter 4: Read Ndima Ma Ch1 3 in Specific Contexts
- Chapter 5: Conclusion

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5. In chapter 4, the author will scrutinize the relevance of Read Ndima Ma Ch1 3 in specific contexts. The fourth chapter will explore how Read Ndima Ma Ch1 3 is applied in specialized fields, such as education, business, and technology.
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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 Read Ndima Ma Ch1 3.

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