

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

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## **Table of Contents Read Ndima Ma Ch1 3**

1. Understanding the eBook Read Ndima Ma Ch1 3
  - The Rise of Digital Reading Read Ndima Ma Ch1 3
  - Advantages of eBooks Over Traditional Books
2. Identifying Read Ndima Ma Ch1 3
  - 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 Read Ndima Ma Ch1 3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Read Ndima Ma Ch1 3
  - Personalized Recommendations
  - Read Ndima Ma Ch1 3 User Reviews and Ratings
  - Read Ndima Ma Ch1 3 and Bestseller Lists
5. Accessing Read Ndima Ma Ch1 3 Free and Paid eBooks

- Read Ndima Ma Ch1 3 Public Domain eBooks
- Read Ndima Ma Ch1 3 eBook Subscription Services
- Read Ndima Ma Ch1 3 Budget-Friendly Options

6. Navigating Read Ndima Ma Ch1 3 eBook Formats

- ePUB, PDF, MOBI, and More
- Read Ndima Ma Ch1 3 Compatibility with Devices
- Read Ndima Ma Ch1 3 Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Read Ndima Ma Ch1 3
- Highlighting and Note-Taking Read Ndima Ma Ch1 3
- Interactive Elements Read Ndima Ma Ch1 3

8. Staying Engaged with Read Ndima Ma Ch1 3

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Read Ndima Ma Ch1 3

9. Balancing eBooks and Physical Books Read Ndima Ma Ch1 3

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Read Ndima Ma Ch1 3

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Read Ndima Ma Ch1 3

- Setting Reading Goals Read Ndima Ma Ch1 3
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Read Ndima Ma Ch1 3

- Fact-Checking eBook Content of Read Ndima Ma Ch1 3
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

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- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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