

& training

Department: Higher Education and Training **REPUBLIC OF SOUTH AFRICA**



SUBJECT: FOUNDATIONAL ENGLISH **MODULE NAME: 3 UNIT NUMBUER: 1** UNIT NAME : LINEAR MEASUREMENT

TOPIC

After completing this topic, you will be able to:**1. Convert:**a. Centimetres to millimetres and vice versa

- b. Metres to centimetres and millimetres and vice versa
- c. Kilometres to metres, centimetres and millimetres and vice versa

2. Solve word problems that involve the conversion of the above

Conversion between km, m, cm and mm

What is distance?

Distance measures length. In the metric system of measurement, the units of distance we use the most are millimetres, centimetres, metres, and kilometres.

How big are metric units of distance?

A paper clip is about 1 *millimetre* thick.
A fingernail is about 1 *centimetre* wide.
The length of a guitar is about 1 *metre*.
A kilometre is equal to 1000 *metres*. It is just little more than twice

around a soccer field.

Converting larger units to smaller units.

You must MEMORISE how to convert.

- 1 *centimetre* = 10 *millimetres*
- 1 *metre* = 100 *centimetres*
- 1 metre = 1000 millimetres
- 1 kilometre = 1000 metres

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DPA/mdp

LINEAR MEASUREMENT

Example: Converting metres to centimetres:

1 *metre* = 100 *centimetres* (This you must KNOW, because you must memorise it)

 $11 metres = 11 \times 100 = 1100 centimetres$

We can also convert smaller units to larger units:

Examples: 1 m = 1/1000 = 0,001 kilometres

7 m = 7/1000 = 0,007 kilometres

Practise questions

1. 37 <i>cm</i> =	mm
2. 598 <i>km</i> =	ст
3. 20 <i>m</i> =	mm
4. 914 <i>m</i> =	km
5. 58 <i>m</i> =	ст

ANSWERS : 370*mm* ; 59 800 000*cm* ; 20 000*mm* ; 0,914*km*; 5800*cm*

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Solve Word Problems

- 1. John rode 2 *kilometres* on his bike. His sister Sally rode 3000 *meters* on her bike. Who rode the furthest (answer in *km*)?
- 2. Jessica is measuring two pieces of wood. The first piece of wood is 30 *cm* long. The second piece of wood is 500 *mm* long. How long are the two line segments together? (answer in *cm*)
- 3. Dumi grew 10 *centimetres* in 1 year. He is now 1.6 *m* tall. How tall was he 1 year ago?
- **4.** Jessica's shoebox is 20 *centimetres* long and 10 *centimetres* wide. How many more millimetres is the length of the shoebox than the width?

Solution

- Solve the following word problems.
- **1**. Sally went 1*km* further
- **2.** 30*cm* + 50*cm* = 80*cm*
- **3.** 1,5*m*
- **4.** 100*mm*