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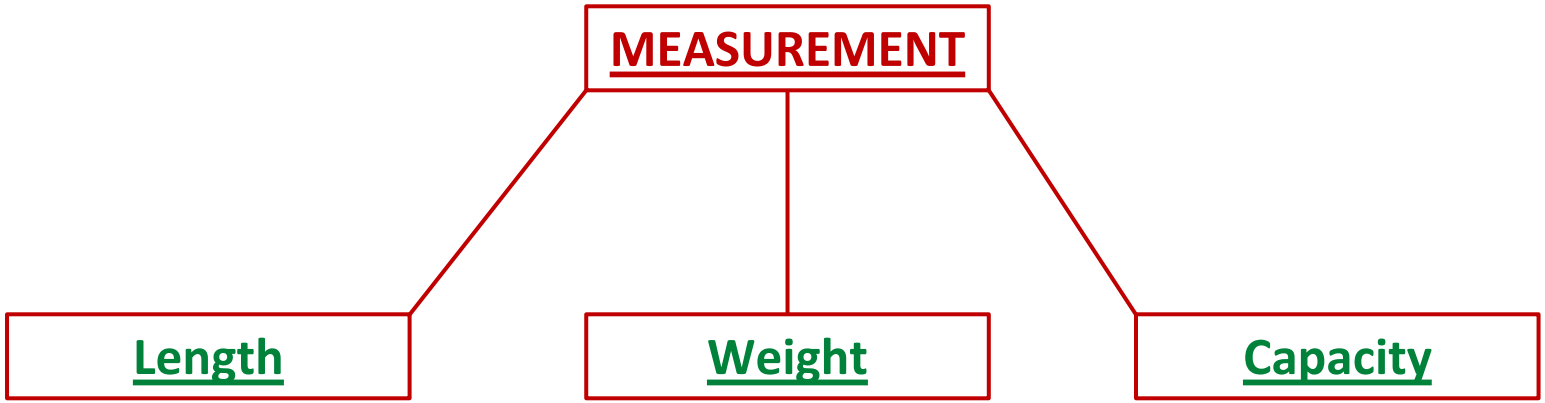
SESSION	**: 1**
CLASS	**: IV**
SUBJECT	**: MATHEMATICS**
CHAPTER NUMBER	**: 12**
CHAPTER NAME	**: MEASUREMENT**
SUBTOPIC	**: LENGTH AND CONVERSION OF LENGTH**

LEARNING OBJECTIVE

- **Enable the students to understand about the different units of length and to know about the conversion of length.**

MEASUREMENT



MEASUREMENT

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HYDERABAD

DELHI
VECTOR ILLUSTRATION

MEASUREMENT

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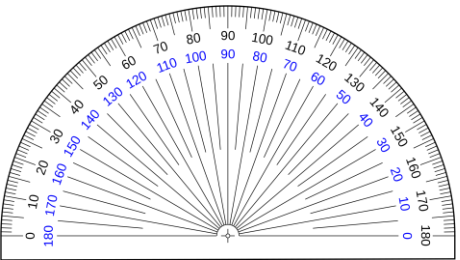
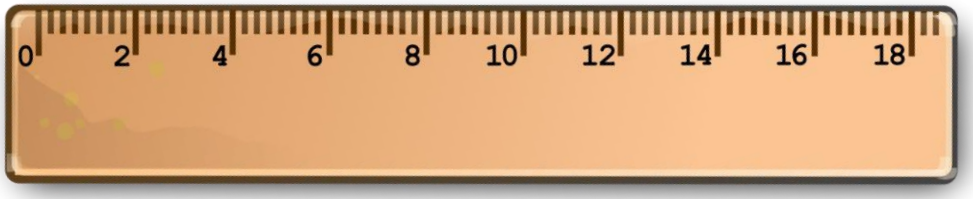
The standard unit used for measuring length is called the **metre (m)**. Other units used for measuring lengths are **millimetre**, **centimetre**, **kilometre**, etc.

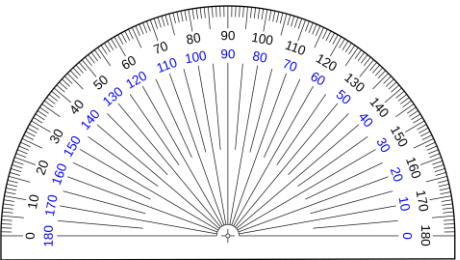


MEASUREMENT

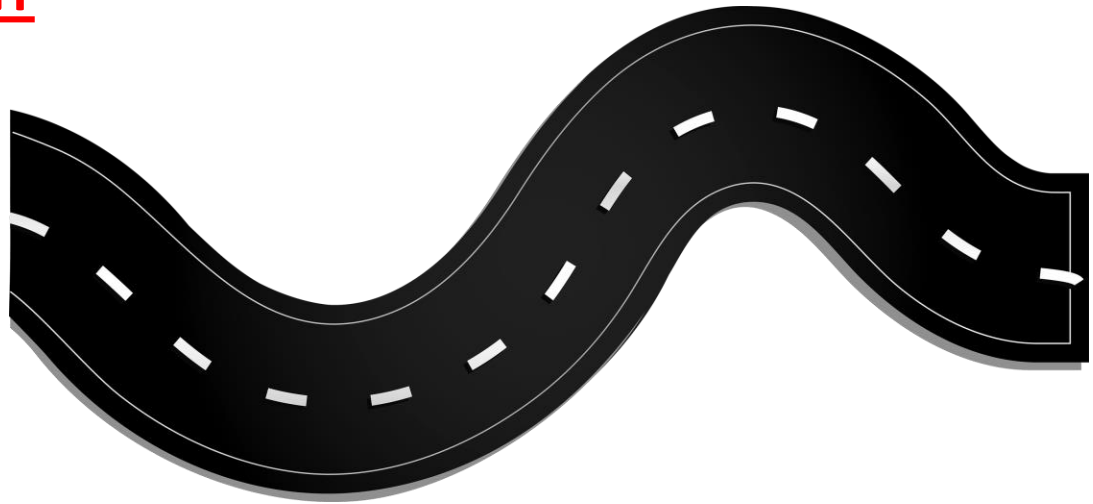


Centimetre

It is used for measurement of small length

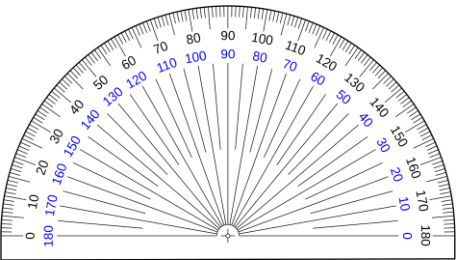


MEASUREMENT



Kilometre

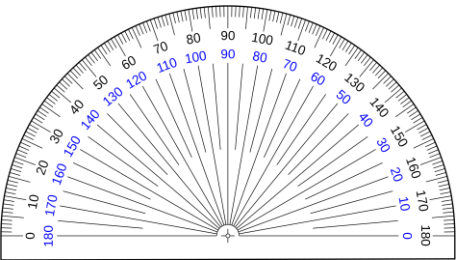
It is used for measurement of large length



MEASUREMENT

Metre

Here we use the unit metre for measurement



MEASUREMENT

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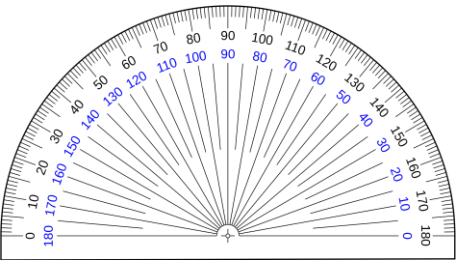
1 cm	=	10 mm
1 m	=	100 cm
1 km	=	1000 m



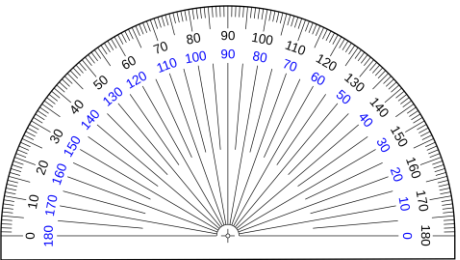
MEASUREMENT

CONVERSION

A. Metres into Centimetre **1 m = 100 cm**

1. To convert metres into centimetres, multiply the number of metres by 100. **(to multiply a number by 100, just put two zeroes to the right of the number)**.

2. To convert metres and centimetres into **centimetres**, multiply the number of metres by **100** and then **add** the number of centimetres to it.



MEASUREMENT

CONVERSION

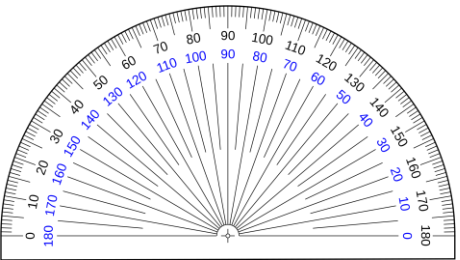
A. Metres into Centimetre **1 m = 100 cm**

Example:

1. Convert 35 metres into centimetres.

35 × 100 = **3500 cm**.

2. Convert 225m 85cm into centimetres.



225m 85cm = **225 × 100 cm + 85 cm** = **22,585cm**

MEASUREMENT

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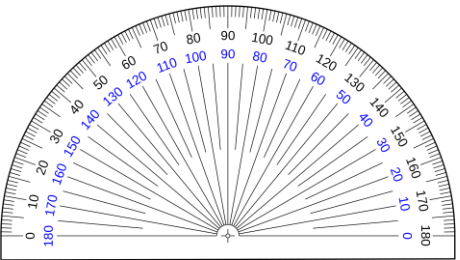
CONVERSION

B. Centimetres into metres

100 cm = 1 m

To convert centimetres into metres, divide the number of centimetres by 100.



MEASUREMENT

CONVERSION

B. Centimetres into metres **100 cm = 1 m**

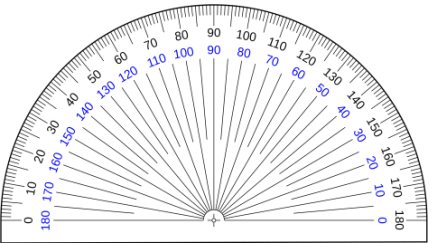
Example: 1. Convert 545 centimetres into metres.

545 cm = **500 cm + 45 cm =** **5 m 45 cm**

2. Convert 3,758cm into metres and centimetres.

3,758cm = **3700 cm + 58 cm** = **37 m 58 cm**

when centimetres are converted into metres and centimetres, the number formed by the last two digits on the right gives the number of centimetres and the number formed by the remaining digits gives the number of metre.



Thus, 3,7**67** cm = 37 m 67 cm.

33,7**42** cm = 337 m 42 cm.

MEASUREMENT

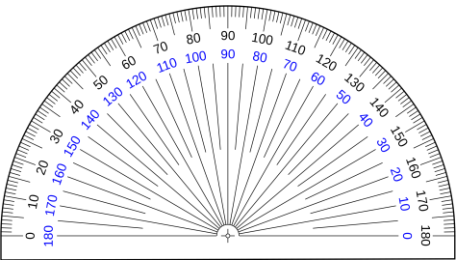
CONVERSION

C. Kilometres into metres

1 km = 1,000 m

1. To convert kilometres into metres, multiply the number of kilometres by 1,000. **(To multiply by 1,000, just insert 3 zeros to the right of the number)**.

2. To convert kilometres and metres into metres, multiply the number of kilometres b 1,000 and then add the number of metres, to it.



MEASUREMENT

CONVERSION

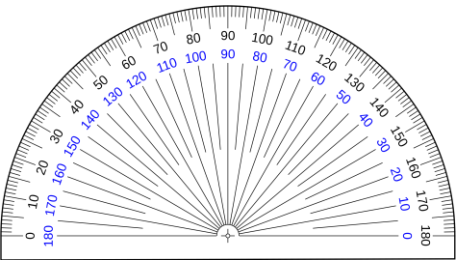
C. Kilometres into metres

1 km = 1,000 m

Example: Convert 9 km and 12 km 625 m into metres.

(a) 9 km = **9 × 1000 m =** **9,000 m**

(b) 12km 625 m = **12 × 1,000 m + 625 m =** **12,000 + 625 = 12,625 m**



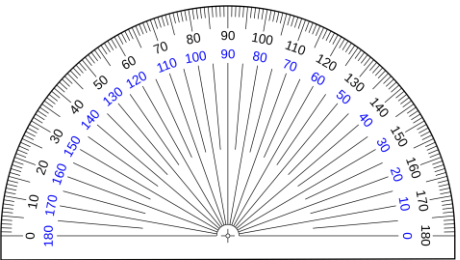
MEASUREMENT

CONVERSION

D. Metres into Kilometres

1000 m = 1 km

To convert metres into kilometres, divide the number of metres by 1,000.



MEASUREMENT
CONVERSION

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D. Metres into Kilometres

1000 m = 1 km

Example:

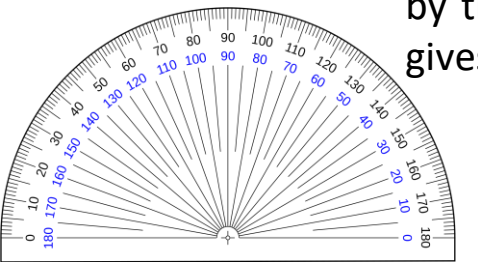
1. Convert 1,775 m into kilometres.

1,775 m = **1000 m + 775 m =** **1 km 775 m**

2. Convert 12,580 m into kilometres.

12,580 m = **12000 m + 580 m** = **12 km 580 m**

when metres are converted into kilometres and metres, the number formed by the last three digits on the right gives the metres and the remaining digit(s) gives the kilometres.



LEARNING OUTCOME:

Students are able to understand about the different units of length and to know about the conversion of length.

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THANKING YOU

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