

**L.O: To be able to convert between
different units of measure**

Today we will be looking at Kilometres
and Metres

Answers from yesterday's
work.....

Centimetres	Millimetres
6.8cm	68mm
5.1cm	51mm
4.2cm	42mm

Average Body Lengths of Spiders			
Spider	Centimetres	Millimetres	cm and mm
king baboon spider	8.7cm	87mm	8cm 7mm
Sydney funnel-web spider	<i>3.5cm</i>	<i>35mm</i>	3cm 5mm
trapdoor spider	2.8cm	<i>28mm</i>	<i>2cm 8mm</i>
harvestman spider	<i>0.9cm</i>	9mm	<i>0cm 9mm</i>
cellar spider	2.5cm	<i>25mm</i>	<i>2cm 5mm</i>
wolf spider	<i>3.4cm</i>	<i>34mm</i>	3cm 4mm
orb-weaver spider	<i>3.8cm</i>	38mm	<i>3cm 8mm</i>
Goliath <u>birdeater</u>	11.9cm	<i>119mm</i>	<i>11cm 9mm</i>

Metres	Centimetres
2.32m	232cm
5.59m	559cm
4.85m	485cm

Average Lengths of Snakes			
Snake	Metres	Centimetres	m and cm
giant anaconda	5.21m	521cm	5m 21cm
puff adder	<i>1.15m</i>	<i>115cm</i>	1m 15cm
boa constrictor	<i>2.13m</i>	213cm	<i>2m 13cm</i>
rattlesnake	<i>1.85m</i>	<i>185cm</i>	1m 85cm
black mamba	<i>2.55m</i>	255cm	<i>2m 55cm</i>
king cobra	<i>4.86m</i>	<i>486cm</i>	4m 86cm
blind snake	<i>0.32cm</i>	32cm	<i>0m 32cm</i>
reticulated python	3.95m	<i>395cm</i>	<i>3m 95cm</i>

Giant Anaconda	King Cobra	Reticulated Python	Black Mamba	Boa Constrictor	Rattle Snake	Puff Adder	Blind Snake
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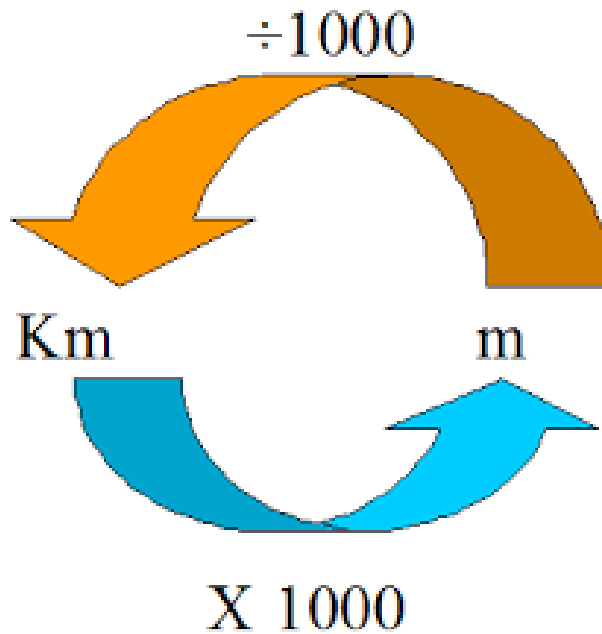
By the end of the lesson you should be able to:

Multiply by 1000 to convert measurements from kilometres to metres.

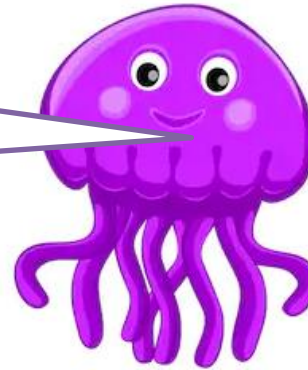
Divide by 1000 to convert measurements from metres into kilometres.

Convert between metres and kilometres to solve problems.

As we have already looked at previously
1km = 1000 m



Can you help me to
make the pair for
these cards
Write the card pairs in
your book *as cards*



USE YOUR
FRACTION
KNOWLEDGE

5Km → ?

7 and a
half Km → ?

3 and a
quarter
Km → ?

6500m → ?

9250m → ?

8750m → ?

Multiplying and Dividing by 1000

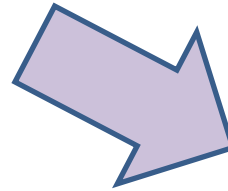
$$5\text{km} = 5000\text{m}$$

What calculation did you do to convert from kilometres to metres?

$$5 \times 1000 = 5000$$

To convert from kilometres to metres, we multiply by 1000. To multiply by 1000, each digit moves three places to the left:

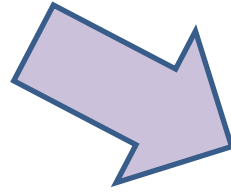
thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			5	.		



thousands	hundreds	tens	ones	tenths	hundredths	thousandths
5	0	0	0	.		

4.5km

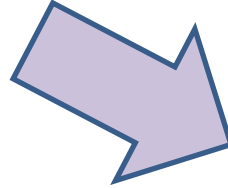
thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			4	5		



thousands	hundreds	tens	ones	tenths	hundredths	thousandths
4	5	0	0			

3.653km

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			3	6	5	3



thousands	hundreds	tens	ones	tenths	hundredths	thousandths
3	6	5	3			

In your book: convert each measurement from kilometres to metres by multiplying the number by 1000.

Kilometres	Metres
2.852km	
4.32km	
8.9km	
9.06km	

Multiplying and Dividing by 1000

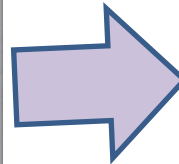
$$3000\text{m} = 3\text{km}$$

What calculation did we do to convert from metres to kilometres?

$3000 \div 1000 = 3\text{km}$

To convert from metres to kilometres, we divide by 1000. To divide by 1000, each digit moves three places to the right:

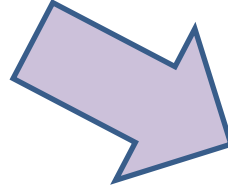
thousands	hundreds	tens	ones	tenths	hundredths	thousandths
3	0	0	0	.		



thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			3	.		

8943m

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
8	9	4	3	•		



thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			8	•9	4	3



Remember, after the decimal place, any zeros after the last digit in the number have no value – so we do not need to write them.

In your book: convert each measurement from metres to kilometres by dividing the number by 1000.

Metres	Kilometres
3568m	
4113m	
6580m	
8600m	
7070m	

Next activity in your book:

Complete these questions in your book.
Writing out what you need to, to answer.

Use $<$ or $>$ to compare these measurements:

8756m	6.342km	7.841km	2560m	2.3km	2300m
3km	3715m	3.2km	4100m	6800m	6.3km
4.35km	4350m	3.048km	3048m	2.5km	2005m

Order these measurements from shortest to longest:

4.25km

2075m

4255m

2.75km

6km

Shortest



Longest

Shortest ←————→ Longest				

Kilometres	Metres	X or ✓	Correct Measurement
4.744km	4744m		
2.356km	23.56m		
3.21km	321m		
4.63km	4630m		