

# CONVERTING LENGTH UNITS OF MEASURE

## CONVERTING FROM ONE UNIT OF MEASURE TO ANOTHER UNIT OF MEASURE

Featuring Page 2 of a 3 page summary

Steps	Larger unit of Measure to Smaller unit of Measure (X)	Smaller unit of Measure to Larger unit of Measure (÷)												
<b>Step One:</b> Use your hands Bigger to Smaller → <b>Multiply (X)</b> Smaller to Bigger → <b>Divide (÷)</b>	$2\text{m} = \text{_____ mm} \rightarrow \text{Multiply (move RIGHT)}$	$29.4\text{ cm} = \text{_____ km} \rightarrow \text{Divide (Move LEFT)}$												
<b>Step Two:</b> Write either 'X' or '÷' sign (after the original number being converted)	$2^{\times}$	$29.4^{\div}$												
<b>Step Three:</b> Put your finger on both units of measure in the question														
<b>Step Four:</b> Notice how many zero's (0's) lie between the two units of measure between your fingers <table border="1"> <tbody> <tr> <td>1 Zero /</td> <td>0</td> <td>10</td> </tr> <tr> <td>2 Zero/</td> <td>00</td> <td>100</td> </tr> <tr> <td>3 Zero/</td> <td>000</td> <td>1,000</td> </tr> <tr> <td>4 Zero/</td> <td>0000</td> <td>10,000</td> </tr> </tbody> </table>	1 Zero /	0	10	2 Zero/	00	100	3 Zero/	000	1,000	4 Zero/	0000	10,000	In this case there are 3 Zeros, therefore the decimal point needs to be moved 3 places. 	In this case there are 5 Zeros. Therefore the decimal point needs to be moved 5 places. 
1 Zero /	0	10												
2 Zero/	00	100												
3 Zero/	000	1,000												
4 Zero/	0000	10,000												
<b>Step Five:</b> Write the number (without the unit of measure) (Add a decimal point if it is a whole number without any decimal places) Eg Write 2 as 2.	Write 2 → but because no decimal places write 2. 	Write 29.4 												
<b>Step Six:</b> Put your pen on the decimal point, moving as many decimal places as lay between the two units of measure. Add the new unit of measure.	<b>Answer = 2000 mm</b> Remember: When you multiple the number gets bigger (check your answer that it is a bigger number) Is your final answer bigger???	<b>Answer = 0.000294km</b> Remember: When you divide the number gets smaller (check your answer that it is a smaller number) Is your final answer smaller???												