

Name \_\_\_\_\_ Date \_\_\_\_\_

## Converting between metric measures

To convert from one measurement to another you must either **multiply** or **divide** by the amount of each unit.

If you are converting from a **large unit to a smaller unit, you must multiply.**

If you are converting from a **small unit to a large unit, you must divide.**

For example, to convert from millimetres (small unit) to metres (large unit) you must divide but to convert from metres (large unit) to millimetres (small unit) you must multiply.

It is important to know how many to multiply or divide by so you must remember the information in the chart below.

1 kilometre	1 000 metres
1 kilometre	100 000 centimetres
1 kilometre	1 000 000 millimetres
1 metre	.001 kilometres
1 metre	100 centimetres
1 metre	1 000 millimetres
1 centimetre	.00001 kilometre
1 centimetre	.01 metres
1 centimetre	10 millimetres
1 millimetre	.000001 kilometre
1 millimetre	.001 metre
1 millimetre	.1 centimetre

**Look at the chart. Complete the missing words and numbers in the text below.**

Remember, when dividing or multiplying by 10, 100, 1000, etc. we move the decimal point left or right by the relevant amount of 0's. We move the decimal point left to \_\_\_\_\_ and right to \_\_\_\_\_.

To convert 3 metres in to centimetres we need to \_\_\_\_\_ 3 by 100.

To convert 35 millimetres in to metres we need to divide 35 by \_\_\_\_\_.

To convert 48 centimetres in to kilometres we need \_\_\_\_\_ by \_\_\_\_\_.

To convert 6.5 kilometres in to millimetres we need \_\_\_\_\_ by \_\_\_\_\_.

The process is the same for distance, mass and capacity measurements. Therefore, to change litres in to millilitres we would \_\_\_\_\_ by 1000 or to change milligrams to kilograms we would divide by \_\_\_\_\_.

## Answers

# Converting Temperatures

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Remember, when dividing or multiplying by 10, 100, 1000 etc... we simply move the decimal point left or right by the relevant amount of 0's. Left to **divide** and right to **multiply**.

Convert 3 metres into centimetres we need to **multiply** 3 by 100

Convert 35 millimetres in to metres we need to divide 35 by **1000**

Convert 48 centimetres in to kilometres we need **divide** by **100 000**

Convert 6.5 kilometres in to millimetres we need **multiply** by **1 000 000**

The process is the same for distance, mass and capacity measurements. Therefore, to change litres in to millilitres we would **multiply** by 1000 or to change milligrams to kilograms we would divide by **1 000 000**.