## Knowledge Organiser - Maths

## Multiplication and division

Multiply and dividing by 10, 100 and 1,000
When a number is multiplied by 10,100 or 1,000 , the digits move to the left in the place value column. The digits move 1 place left when we multiply by 10,2 places to multiply by 100 and 3 places to multiply by 1,000 .
The empty place value spaces are filled with a $\mathbf{0}$ as a place holder.

| TH | H | T | 0 |
| :---: | :---: | :---: | :---: |
|  | 4 | 2 | 3 |
|  | (10) 110 (100 ${ }^{00}$ | (10) (10) | (1) ${ }^{\text {a }}$ |
| (10) 10 (10) ${ }^{\circ 0}$ | (10) (10) | (1) | 0 |

$423 \times 10=4,230$


When a number is divided by 10,100 or 1,000 , the digits move to the right in the place value column: 1 place when dividing by 10,2 places to divide by 100 and 3 places to divide by 1,000 .

Look what happens when we divide 7,900 by 10 , 100 and 1,000 :


## Divison

$$
136 \div 4=34
$$

$$
\left.\begin{array}{|r|r|r|}
\hline 4 & 1 & 3 \\
\hline
\end{array} \right\rvert\, \begin{array}{l|l|}
\hline- & 1
\end{array} 2800 \times 4
$$

## Measure Length



$$
10 \mathrm{~mm}=1 \mathrm{~cm}
$$

taller/tallest

## Perimeter

Equivalent Length


[^0]
[^0]:    $5 \mathrm{~cm}+2 \mathrm{~cm}+5 \mathrm{~cm}+$ $2 \mathrm{~cm}=14 \mathrm{~cm}$

