



Eleven Plus Maths How To Do - Division by a Decimal Number

(1) Example: $63.02 \div 5$

Put the sum down as for the usual division sum, putting the decimal point above the decimal point in the dividend.

$$5/63.02$$

Divide as usual.

$$\begin{array}{r} 12.604 \\ 5 \overline{)63.020} \end{array}$$

To divide by a decimal number.

(2) Example: $3.6 \div 0.5$

You cannot divide by 0.5

Change the divisor 0.5 in to a whole number by multiplying by ten ($0.5 \times 10 = 5$).

You have made the divisor ten times bigger so now you have to make the dividend ten times bigger too ($3.6 \times 10 = 36$).

Note: When you multiplied 0.5 by 10 you moved the figure one place to the left.

When you multiplied 3.6 by ten you moved the figures one place to the left.

Now divide as usual

$$\begin{array}{r} 7.2 \\ 5 \overline{)36.0} \end{array}$$

(3) Example: $3.4 \div 0.04$

(i) Make the divisor a whole number by multiplying by 100 (the figure 4 moves two places to the left).

(ii) Make the dividend 100 times bigger by moving the figures two places to the left.

$\begin{array}{r} \text{H T U . t h t h} \\ 0 . 0 4 \\ \times 100 \quad 4 . 0 \\ \hline 85.0 \\ 4 \overline{)340.0} \end{array}$	$\begin{array}{r} \text{H T U . t h t h} \\ 3 . 4 \\ \times 100 \quad 3 4 0 . 0 \end{array}$
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(4) Example: $26.23 \div 1.4$

Multiply both the divisor and dividend by 10 to make the divisor a whole number.

The sum now reads
 $262.3 \div 14$

Divide in the usual way.