

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

(1) Example: 63.02 ÷ 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.

<u>12.604</u> 5/63.020

To divide by a decimal number.

(2) Example: 3.6 ÷ 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 <u>left</u>. When you multiplied 3.6 by ten you moved the figures one place to the <u>left</u>.

Now divide as usual

7.2 5/ 36.0

(3) Example: 3.4 ÷ 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.

4/340.0

(4) Example: 26.23 ÷ 1.4

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

The sum now reads 262.3 ÷ 14

Divide in the usual way.