

### Success Criteria for Dividing by a Decimal

No	Success Criteria	Example
	Know the parts of a division	
1	Set out your question	
2	Count the digits behind the decimal point in the divisor	
3	Think of the number that is $10^n$ where $n$ is the number of digits behind the decimal point in the divisor	
4	Write out the times table of the divisor up to 10 times ...	
5	Divide the first digit of the dividend by the divisor	

6	Multiply the last number of the quotient that you calculated by the divisor and write it underneath the first digit of the dividend	$\begin{array}{r} \div \times \downarrow \\ 3 \overline{) 67740} \\ \underline{6} \end{array}$	
7	Subtract these two numbers	$\begin{array}{r} \div \times \downarrow \\ 3 \overline{) 67740} \\ \underline{6} \\ 0 \end{array}$	
8	Bring down the next column next to the answer to your subtraction	$\begin{array}{r} \div \times \downarrow \\ 3 \overline{) 67740} \\ \underline{6} \downarrow \\ 07 \end{array}$	
9	Begin the whole process again from number 5 (in the instructions).	$\begin{array}{r} 22 \\ 3 \overline{) 67740} \\ \underline{6} \downarrow \\ 07 \downarrow \\ \underline{-6} \downarrow \\ 17 \end{array}$	
10	Keep repeating it until you have run out of digits in the divisor. At that point, you can either add more zeros (if you are working in decimal fractions).	$\begin{array}{r} 225 \\ 3 \overline{) 67740} \\ \underline{6} \downarrow \\ 07 \downarrow \\ \underline{-6} \downarrow \\ 17 \downarrow \\ \underline{-15} \downarrow \\ 24 \end{array}$	$\begin{array}{r} 2258 \\ 3 \overline{) 67740} \\ \underline{6} \downarrow \\ 07 \downarrow \\ \underline{-6} \downarrow \\ 17 \downarrow \\ \underline{-15} \downarrow \\ 24 \downarrow \\ \underline{-24} \downarrow \\ 00 \end{array}$
11	Once you have finished, the answer is the answer... you do <b>not</b> need to multiply or divide the quotient to "undo" the alteration you made in part 3.  $6774 \div 0.3 = 22580$	$\begin{array}{r} 22580 \\ 3 \overline{) 67740} \\ \underline{6} \downarrow \\ 07 \downarrow \\ \underline{-6} \downarrow \\ 17 \downarrow \\ \underline{-15} \downarrow \\ 24 \downarrow \\ \underline{-24} \downarrow \\ 00 \downarrow \\ \underline{-00} \downarrow \\ 00 \downarrow \\ \underline{-00} \downarrow \\ 0 \end{array}$	