## Long division p2 Maths worksheets from mathsblog.co.uk

Warning: this calculation should only be carried out by this method after lots of earlier work leading up to it!

$$\begin{array}{r}
 21 \\
 \hline
 36 \\
 \hline
 789 \\
 \hline
 72 \\
 \hline
 69 \\
 \underline{36} \\
 33
\end{array}$$

First carry out an estimate of the answer. I think 789 divided by 36 is about 20.

Then proceed using these steps:

- 1. How many 36s in 78?
- 2. 2 x 36 is 72. 3 x 36 is 108 which is too many, so it must be 2.
- 3. Put the 2 in the tens column above the answer.
- 4. Place the 72 below the 78 and subtract.
- 5. 78 72 is 6.
- 6. 'Bring down' the 9 to make 69.
- 7. How many 36s in 69.
- 8. By trial and improvement and some rough work multiplying 36 by my estimated numbers I find that  $36 \times 1 = 36$ .
- 9. Place the 36 under the 69 and subtract.
- 10. The remainder (33) must be less than the original number you are dividing by.

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Working out:

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## **Answers**

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