## Expanded Short multiplication

| Step | What to do | How it should look (for $45 \times 6$ ) | $\checkmark$ |
| :---: | :---: | :---: | :---: |
| 1 | Write the numbers, remembering to: <br> - only put 1 digit in each box <br> - put units under units |     <br>  4 5  <br>   6  <br>     |  |
| 2 | Write the multiplication symbol ( $x$ ) | $\begin{array}{\|r\|r\|} \hline & 4 \\ \hline \end{array}$ |  |
| 3 | Draw an equals line | $\begin{array}{\|r\|r\|} \hline & 4 \\ \hline & 5 \\ \hline & \\ \hline & \\ \hline \end{array}$ |  |
| 4 | Multiply the units by the units. Write the answer, and beside it in brackets, what calculation you used to get it | $\begin{array}{\|r\|r\|l\|l\|l\|} \hline & 4 & 5 & & \\ \hline & & & & \\ \hline & 6 & & & \\ \hline & 3 & 0 & (5 \times 6) \\ \hline \end{array}$ |  |
| 5 | Multiply the units by the tens. Write the answer, and beside it in brackets, what calculation you used to get it |         <br>  4 5      <br> $x$ 6       <br>  3 0  $(5$ $x$ 6  <br> 2 4 0  $(4)$ 0 $x$ 6 |  |
| 6 | Draw another equals line and use column addition to add the answers | $\left.\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|} \hline & 4 & 5 & & & & \\ \hline x & 6 & & & & & \\ \hline & 3 & 0 & & (5 & x & 6) \\ \hline 2 & 4 & 0 & & (4 & 0 & x \end{array}\right)$ |  |
| 7 | Use estimation to check if the answer 'looks right' |  |  |

