

SKILL 11

How do I multiply using a written method?

To be able to multiply decimals using grid method

Steps to success

- ✓ Partition the decimal into £s and pence at the top
- ✓ Partition the other number down the side
- ✓ Multiply each number at the top by the number at the side and record in grid
- ✓ Always try to make the calculation easier if you are multiplying 3×0.2 multiply 0.2 by 10 so that it is now $3 \times 2 = 6$.
Then divide the answer by 10 - 0.6.
- ✓ If it is 0.2×0.5 multiply both sides by 10 $2 \times 5 = 10$. Then divide the answer by 100 (10×10) = 0.1
- ✓ Add together each row then add these together.

	2	0.5
3	6	1.5
0.5	1	0.25

$$\begin{array}{r}
 6 \\
 1 \\
 1.5 \\
 + 0.25 \\
 \hline
 8.75
 \end{array}$$

Pupils can see the place value more clearly with this method.

$$2.5 \times 3.5 = 8.75$$