

Multiplication

To multiply 237 by 4 without using a calculator, you can set it out like this:

1.

Start with 4×7 , which is 28, so write the 8 and carry the 2 to the tens column.

2.

$4 \times 3 = 12$, but remember to add the carried 2 to get 14. Write the 4 and carry the 1 to the hundreds column.

3.

$4 \times 2 = 8$, and we add the carried 1 to get 9.

$$\begin{array}{r} 237 \\ \times \quad 4 \\ \hline 948 \\ \begin{array}{cc} 1 & 2 \end{array} \end{array}$$

Therefore $237 \times 4 = 948$

This method is called short multiplication.

This becomes a little different when you multiply a 2 digit by a 2 and a 3 digit number. Instead of having a single line below for working out you now have two. One for the unit and the second for the tens. See example on the right.

Try these using your chosen method;

1. $182 \times 7 =$
2. $343 \times 8 =$
3. $435 \times 9 =$
4. $121 \times 16 =$
5. $173 \times 21 =$
6. $297 \times 36 =$
7. $472 \times 59 =$