

## Multiplying a 3-digit number by a single digit.

Maths worksheets from [mathsblog.co.uk](http://mathsblog.co.uk)

This is an intermediate step in the progress towards developing an efficient, standard method of multiplication on paper. It presumes a good knowledge of tables before starting.



Let's multiply 637 by 4.

First, let's do an estimate of the answer.  
 $600 \times 4$  is 2400 (because  $6 \times 4$  is 24).  
So it should be a little more than 2400.



$$\begin{array}{r} 637 \\ \times \quad 4 \\ \hline 2400 \\ 120 \\ \underline{28} \\ \hline 2548 \end{array} \quad \begin{array}{l} (600 \times 4) \\ (30 \times 4) \\ (7 \times 4) \end{array}$$

Multiply:

600 by 4

30 by 4

7 by 4 and add the answers.



So the answer is 2 548



Remember to keep the units in line, the tens in line and the hundreds in line. It's a good idea to use squared paper if you find this tricky!

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1. H T U  
2 5 9  
x 3

2. H T U  
1 4 8  
x 4

3. H T U  
1 3 7  
x 5

4. H T U  
1 6 6  
x 6

5. H T U  
1 7 7  
x 7

6. H T U  
1 9 3  
x 8

7. H T U  
1 8 5  
x 9

8. H T U  
2 4 6  
x 3

9. H T U  
1 8 8  
x 7

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### Answers

1. 777

2. 592

3. 685

4. 996

5. 1239

6. 1544

7. 1665

8. 738

9. 1316

Lots more like this on the MathSphere, 'It's All Figured Out' worksheet CD [www.mathsphere.co.uk](http://www.mathsphere.co.uk)