

Multiplying a 3-digit number by a single digit (2)

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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 **538** by **4**.

First, let's do an estimate of the answer.
 500×4 is 2000 (because 5×4 is 20).
So it should be a little more than 2000.



$$\begin{array}{r} 538 \\ \times \quad 4 \\ \hline 2000 \\ 120 \\ \quad 32 \\ \hline \underline{2152} \end{array} \quad \begin{array}{l} (500 \times 4) \\ (30 \times 4) \\ (8 \times 4) \end{array}$$

Multiply:

500 by 4

30 by 4

8 by 4 and add the answers.



So the answer is 2 152



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
 3 4 8
 4

2. H T U
 2 3 9
 5

3. H T U
 2 2 8
 6

4. H T U
 2 5 7
 7

5. H T U
 3 6 0
 8

6. H T U
 2 0 4
 9

7. H T U
 3 9 4
 6

8. H T U
 1 5 7
 3

9. H T U
 2 1 4
 7

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Answers

1. 1392

2. 1195

3. 1368

4. 1799

5. 2880

6. 1836

7. 2364

8. 471

9. 1498