

The column method helps to make easier a multiplication that involves a tricky 2 or 3 digit number. Here is the column method:

$$\begin{array}{r}
 126 \\
 \times 3 \\
 \hline
 378
 \end{array}$$

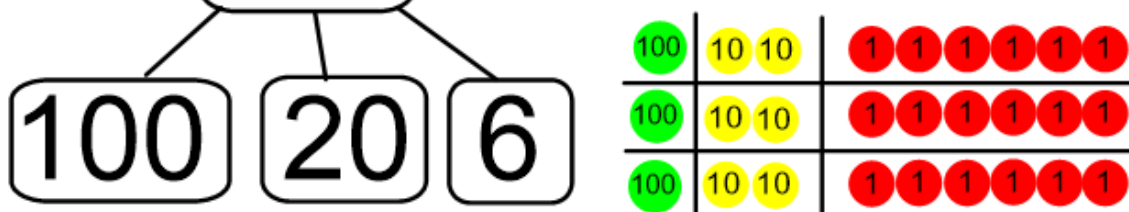
1. $6 \times 3 = 18$ so we write 8 in the ones column and exchange the 10 ones.
2. $3 \times 2 \text{ tens} = 6 \text{ tens}$ but we now have the exchanged 10 so we write 7 in the tens column.
3. $3 \times 1 \text{ hundred} = 3 \text{ hundreds}$ so we write 3 in the hundreds column.
4. 126×3 and $3 \times 126 = 378$

$$\begin{array}{r}
 126 \\
 \times 3 \\
 \hline
 18 \\
 60 \\
 300 \\
 \hline
 378
 \end{array}$$

1. $6 \times 3 = 18$ so we write 1 in the tens column and 8 in the ones column.
2. $3 \times 2 \text{ tens} = 6 \text{ tens}$ so on a new line we write 6 in the tens column and 0 in the ones column.
3. $3 \times 1 \text{ hundred} = 3 \text{ hundreds}$ so on a new line we write 3 in the hundreds column.
4. We add up our 1s column, 10s column and finally the 100s column to reach the final answer, 378.

Here is the grid method:

$$3 \times 126 = 378$$



	100	20	6
$\times 3$	300	60	18

$$3 \times 1 = 3 \quad 3 \times 2 = 6 \quad 6 \times 3 = 18$$

$$3 \times 100 = 300 \quad 3 \times 20 = 60$$

$$300 + 60 + 18 = \underline{378}$$

1. $3 \times 254 =$
2. $4 \times 132 =$
3. $8 \times 345 =$
4. $467 \times 2 =$
5. $384 \times 8 =$
6. $693 \times 5 =$
7. Louis buys 4 jars of sweets. There are 356 sweets in each jar. How many sweets did Louis buy altogether?
8. Joel goes into his garden 5 times a week. He completes 248 kick-ups each time. How many kick-ups does he complete altogether?
9. Evie has 137 pairs of teddy bears. How many teddy bears are there in total?

Challenges are on the next page.

Challenge 1:

Lola and Ellis are trying to work out 524×3 .

Lola says that $524 \times 3 = 15612$

Ellis says that $524 \times 3 = 1572$

Explain who is correct.

Challenge 2:

Always? Sometimes? Never?

When you multiply a 3 digit number and a 1 digit number, you get a 3 digit answer.

Explain your answer.