

### Multiplication using grid method.

Partition numbers (thousands, hundreds, tens, units.)

Put into grid

Calculate using previous knowledge (i.e.  $8 \times 4 = 32$  so  $8 \times 4,000 = 32,000$ )

Add together

$$4346 \times 8$$

x	4 000	300	40	6
8	32 000	2400	320	48

$$\begin{array}{r} 32000 \\ + 2400 \\ + 320 \\ + 48 \\ \hline 34768 \end{array}$$

and numbers with up to four digits by a two-digit number, e.g.

$$2693 \times 24$$

x	2000	600	90	3
20	40000	12000	1800	60
4	8000	2400	360	12

$$\begin{array}{r} 40000 \\ + 8000 \\ + 12000 \\ + 2400 \\ + 1800 \\ + 360 \\ + 60 \\ + 12 \\ \hline 64632 \end{array}$$

Have a go:

A)  $427 \times 13$

B)  $139 \times 52$

C)  $658 \times 27$

D)  $582 \times 31$

E)  $5,283 \times 26$

F)  $7,149 \times 58$

G)  $3,625 \times 45$

H)  $9,706 \times 34$

These links explain long multiplication.

<https://www.bbc.co.uk/bitesize/articles/z4chnrd>

[https://central.espresso.co.uk/espresso/primary\\_uk/subject/module/video/item440586/grade2/module437339/index.html?source=search-Maths-all-Maths-Videos&source-keywords=long%20multiplication](https://central.espresso.co.uk/espresso/primary_uk/subject/module/video/item440586/grade2/module437339/index.html?source=search-Maths-all-Maths-Videos&source-keywords=long%20multiplication)