There are many different ways of multiplying numbers. The method described here is the **splitting** (or **grid**) method. You can use this method to do **mental multiplication**.

Have a read through these examples and then try them yourself. The best way to learn is to have a go.

Example 1: what is 32 × 3?

Steps:

- 1. **Split** 32 into tens and units: 32 = 30 + 2.
- 2. Multiply each number by 3: $30 \times 3 = 90$ and $2 \times 3 = 6$.
- 3. Add the numbers together: 90 + 6 = 96.

This method can also be shown using a grid. Have a look at the next example.

Example 2: you're having a barbecue for your birthday and want to check how many vegetable burgers you have in the freezer. You have 12 boxes of 4 burgers. How many burgers do you have?

Steps:

- Split 12 into tens and units and put these along the top of the grid. Put the 4 down the side of the grid.
- 2. Multiply each number in the row by each number in the column: 4×10 and 4×2 .
- 3. Add each of the answers together: **40 + 8 = 48**.

You have 48 burgers - enjoy the barbecue!



×	10	2
4	40	8







