

Lesson Objective:

Quickly multiply any number with 11

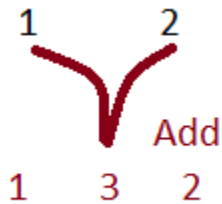
Example 1:

$$12 \times 11$$

We would like to multiply 12 with 11. Space digits of 12 out

1 2

Add these numbers and insert sum in the middle



Example 2:

$$14 \times 11$$

1 4

1 5 4 (add 1 and 4, insert in the middle)

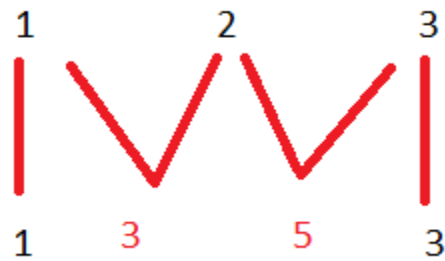
Example 3:

$$34 \times 11$$

$$374$$

Example 4 (3 digit number):

$$123 \times 11$$



Example 4:

$$567 \times 11$$



Add carry in small print
to previous digit

Example 5 (6 digit number):

$$364758 \times 11$$

3 9 10 11 12 13 8 (Keep adding two
Consecutive
numbers)

3 10 1 2 3 3 8 Add carry to
Previous digit

4 0 1 2 3 3 8 Repeat