

Year Group: 4

Strand: Number

Topic: Multiplication

Learning Objective: To multiply 2-digit numbers by 2-digit numbers

Strategy (ies):

1. The grid method

Question: $15 \times 13 =$

x	10	3
10	100	30
5	50	15

$$\begin{array}{r} 100 \\ 50 \\ 30 + \\ \hline 15 \\ \hline 195 \end{array}$$

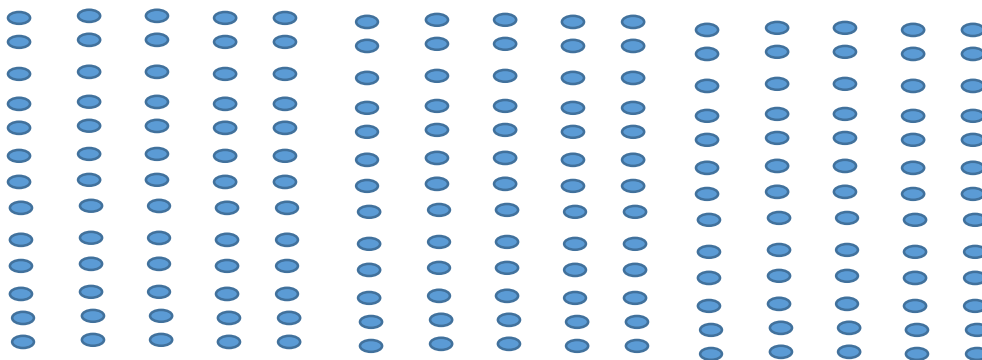
2. Repeated Addition :

$$15 + 15 + 15 + 15 + 15 + 15 + 15 + 15 + 15 + 15 + 15 + 15 + 15 = 195$$

Or

$$13 + 13 + 13 + 13 + 13 + 13 + 13 + 13 + 13 + 13 + 13 + 13 + 13 + 13 = 195$$

3. Array- Equal columns and equal rows



$$\text{Row} \times \text{Column} = 15 \times 13, \text{ 15 lots of 13}$$

$$13 \times 15, \text{ 13 lots of 15}$$

$$195 \div 13 = 15$$

$$195 \div 15 = 13 \text{ (This method is easier with single-digit numbers)}$$

4. Split or Partition

or

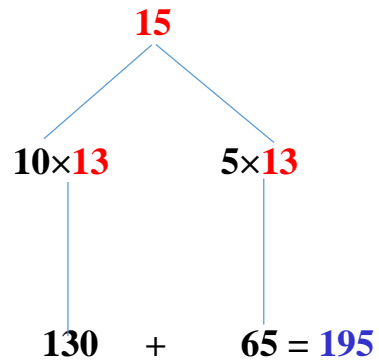
$$15 \times 13$$

$$15 = (10 + 5)$$

$$= (10 \times 13) + (5 \times 13)$$

$$= 130 + 65$$

$$= 195$$



Or

5. Standard

1 (Carry over)

$$\begin{array}{r} 15 \\ \times 13 \\ \hline 45 \\ + 15 \\ \hline 195 \end{array}$$

$$\begin{aligned} 6. \quad 15 \times 13 &= (15 \times 10) + (15 \times 3) \\ &= 150 + 45 \\ &= 195 \end{aligned}$$

Question to be tried at home.

1) $38 \times 22 =$

2) $17 \times 32 =$

3) $48 \times 52 =$

4) $11 \times 9 =$

5) $21 \times 32 =$

$$6) 45 \times 36 =$$

$$7) 84 \times 16 =$$

$$8) 65 \times 39 =$$

$$9) 37 \times 24 =$$

$$10) 85 \times 36 =$$