

Multiply a 2-Digit Number by a 2-Digit Number (Area Model)

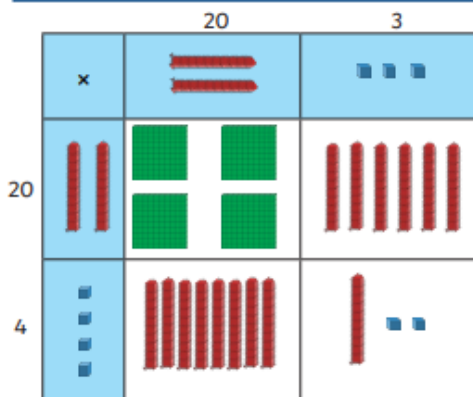
Previously, children will have learnt to multiply up to a 4-digit number by a 1-digit number.

Here, they move on to learning how to multiply by a 2-digit number using the area model.

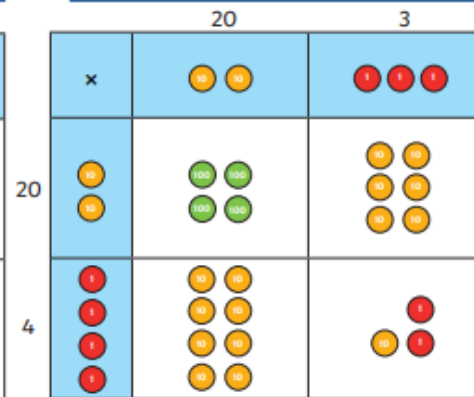
Initially, base ten is used to help children understand the place value of the two 2-digit numbers being multiplied together. Then, they move on to using place value counters.

Once they have a good understanding, children move on to using numbers in the area model.

area model using base ten



area model using place value counters



area model using base ten

x	20	3
20	400	60
4	80	12

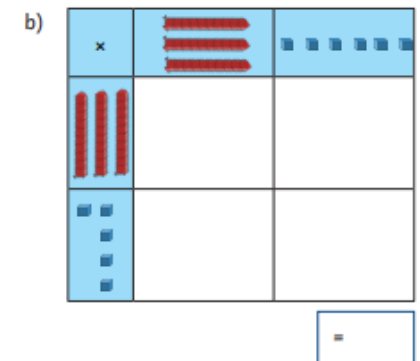
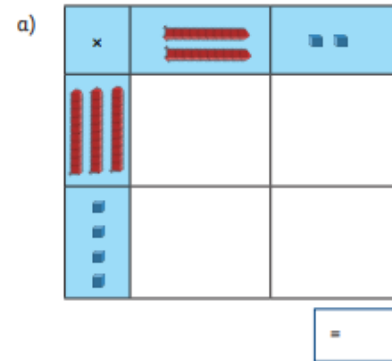
$$24 \times 23$$

$$= 400 + 60 + 80 + 12$$

$$= 552$$

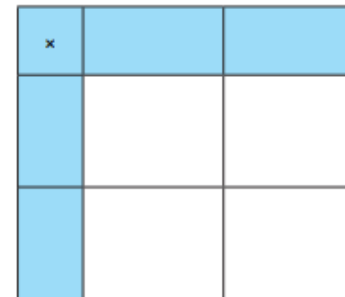
Multiply a 2-Digit Number by a 2-Digit Number (Area Model)

1) Draw base ten in the area models to find the answers.

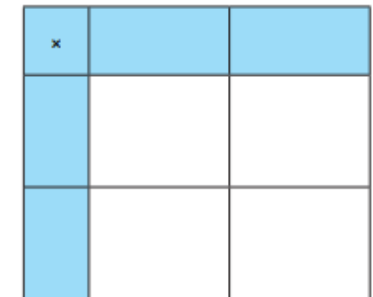


2) Complete the area models using numbers to calculate the answers.

a) $43 \times 32 =$



b) $37 \times 63 =$



3) Complete the area models using numbers to solve the word problems.

- a) Freya jogged a total of 37 miles a week for 42 weeks.
- How many miles did she jog altogether?

