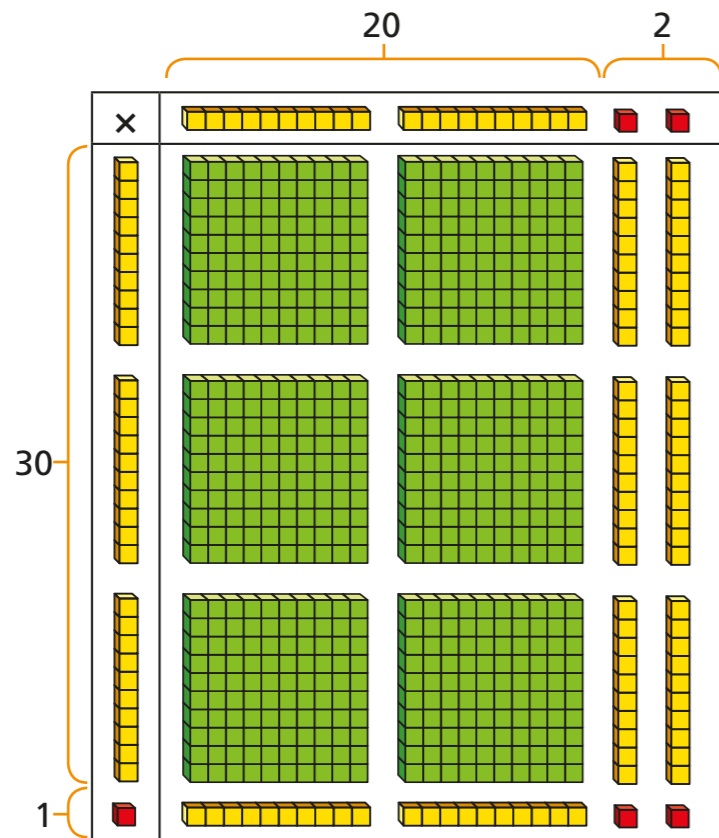


# Multiply 2-digits (area model)

- 1 Kim is using base 10 to work out  $31 \times 22$   
Use Kim's model to help you complete the sentences.



There are  ones altogether.

There are  tens altogether.

There are  hundreds altogether.

$31 \times 22 =$

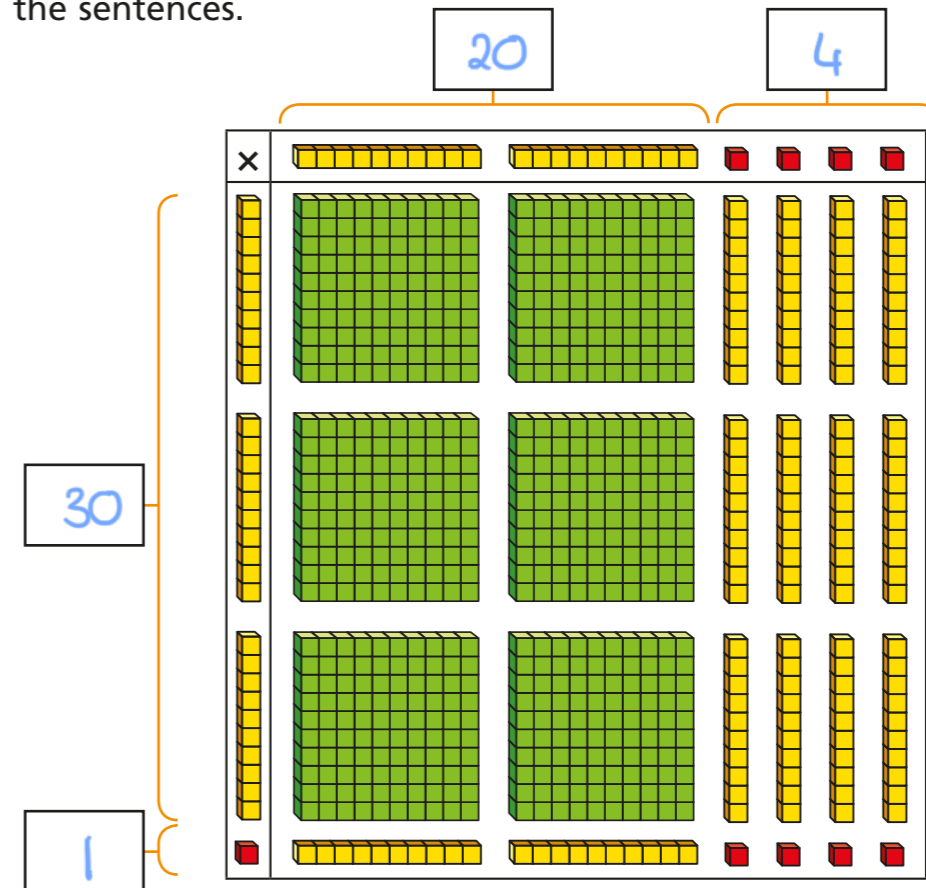
- 2 Use base 10 to work out the multiplications.

a)  $12 \times 14 =$

b)  $23 \times 13 =$

- 3 Amir is using base 10 to calculate  $31 \times 24$

- a) Add the missing information to the area model and complete the sentences.



There are  ones altogether.

There are  tens altogether.

There are  hundreds altogether.

- b) Describe any exchanges you need to make.

Exchange 10 tens for 1 hundred.

- c) Complete the multiplication.

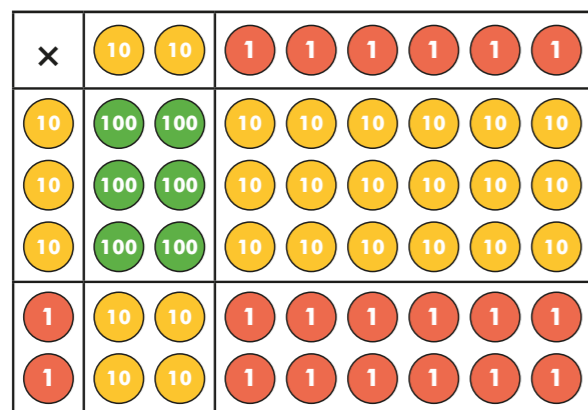
$31 \times 24 =$

- 4 Use base 10 to work out these multiplications.

a)  $25 \times 15 =$

b)  $36 \times 12 =$

- 5 Use the place value counters to complete the multiplication grid and sentence.



x	20	6
30	600	180
2	40	12

$$26 \times 32 = \boxed{832}$$

- 6 Use an area model to help you complete the multiplication.

a)  $28 \times 14 = \boxed{392}$

x	20	8
10	200	80
4	80	32

c)  $35 \times 22 = \boxed{770}$

b)  $27 \times 16 = \boxed{432}$

x	20	7
10	200	70
6	120	42

d)  $45 \times 36 = \boxed{1,620}$

- 7 Complete the multiplications.

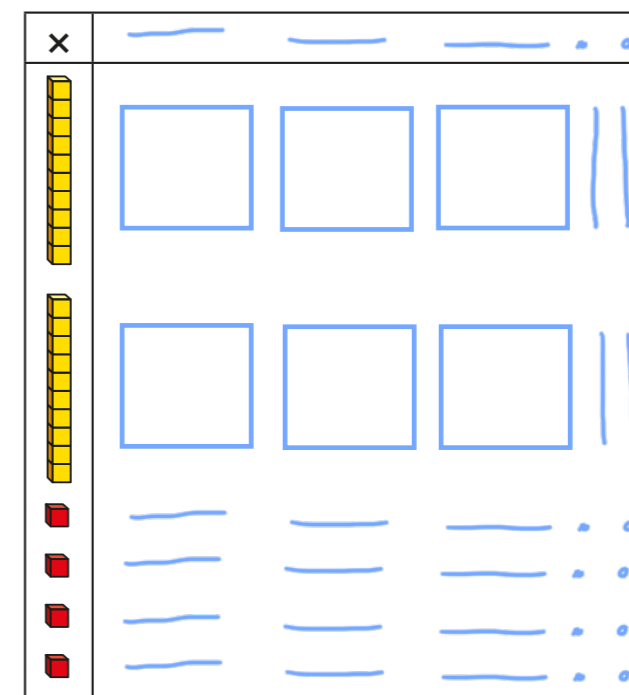
$$21 \times 24 = \boxed{504}$$

$$31 \times 25 = \boxed{775}$$

$$18 \times 26 = \boxed{468}$$

$$24 \times \boxed{32} = 768$$

Complete the area model to find the missing number.



- 9 Use each digit card once to write a multiplication.



e.g.  $\boxed{23} \times \boxed{45} = \boxed{1,035}$

How many different answers can you find?

Various answers

How many products are there between 1,000 and 1,500?