Multiply a 2-digit number by a 2-digit number (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 $\square$ ones altogether.

There are $\square$ tens altogether.
There are $\qquad$ hundreds altogether.
$31 \times 22=$ $\square$
(2)

Use base 10 to work out the multiplications.
a) $12 \times 14=$ $\square$ b) $23 \times 13=$ $\square$

The base 10 represents $31 \times 24$
Add the missing information to the area model and complete the sentences.

$\square$

4. Use base 10 to work out the multiplications.
a) $25 \times 15=$ $\square$
b) $36 \times 12=$ $\square$
c) $43 \times 26=$ $\square$
d) $23 \times 34=$ $\square$

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


| $\times$ | 20 | 6 |
| :---: | :---: | :---: |
| 30 |  |  |
| 2 |  |  |

$\square$
$26 \times 32=$

6 Use an area model to help you complete each multiplication.
a) $28 \times 14=$ $\qquad$

| $\times$ | 20 | 8 |
| :---: | :---: | :---: |
| 10 |  |  |
| 4 |  |  |

c) $35 \times 22=$ $\square$
b) $27 \times 16=$

d) $45 \times 36=$ $\square$
(7)
$24 \times$ $\square$ $=768$

Complete the area model to find the missing number.

8 Use each digit card once to write a 2-digit by 2-digit multiplication.

List all the different answers that you can find.

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

$\qquad$
$\qquad$

