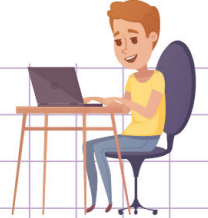


Name: Class:

Multiply 2-digits numbers by 2-digit numbers using area models

1. Represent 27×45 using area model.



2. Find the product of 31×12 using the area model method.

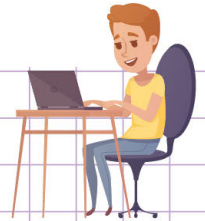
4. Represent 49×17 using area model.

5. Find the product of 33×94 using the area model method.



Name: Class:

Multiply 2-digits numbers by 2-digit numbers using area models



1. Represent 27×45 using area model.

Let's first of all break the numbers into tens and ones respectively.

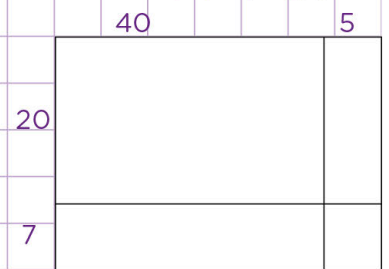
$$27 \times 45 = (20 + 7) \times (40 + 5)$$

Secondly, let's interpret the expression. $(20 + 7) \times (40 + 5)$

The expression shows that, one side length of the model will be

$20 + 7$ and the other side length will be $40 + 5$

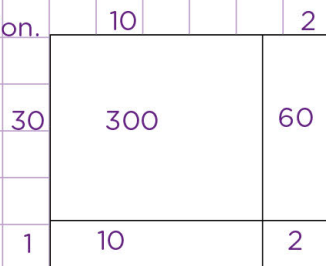
Finally, let's draw a model to show this.



2. Find the product of 31×12 using the area model method.

Let's first of all multiply the side lengths

to get the area of each section.



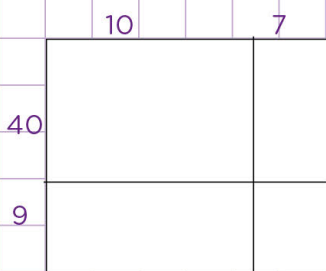
Now, let's add all the figures in each

section to get the area of the whole model.

$$300 + 60 + 10 + 2 = 372$$

$$\text{So, } 31 \times 12 = 372$$

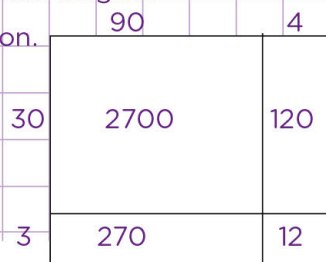
4. Represent 49×17 using area model.



5. Find the product of 33×94 using the area model method.

Let's first of all multiply the side lengths

to get the area of each section.



Now, let's add all the figures in each

section to get the area of the whole model.

$$2,700 + 270 + 120 + 12 = 3,102$$

$$\text{So, } 33 \times 94 = 3,102$$

