

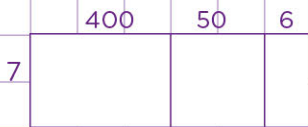
Name: Class:

Area model multiplication 1-digit by 3-digit numbers



1. Draw a model that represents 2×149

2. Find the product of 7×456 using the area model



3. Draw a model that represents 5×919

Name: Class:

Area model multiplication 1-digit by 3-digit numbers



1.

First of all, break the 149 into hundreds, tens, and ones respectively.

H T O

$$2 \times 149 = 2 \times (100 + 40 + 9)$$

Secondly, let's interpret the expression.

$$2 \times (100 + 40 + 9)$$

The expression shows that one side length of the model will be 2 and the other side length will be $(100 + 40 + 9)$.

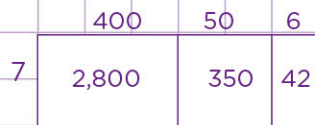
Finally, let's draw a model to show this.



2. Find the product of 7×456 using the area model



First of all, let's multiply the side lengths of the model to get the area of each section



Now, let's add all the figures in each section to get the area of the model
 $2,800 + 350 + 42 = 3,192$

So, $7 \times 456 = 3,192$

3. Draw a model that represents 5×919

First of all, let's break the 919 into hundreds, tens and ones respectively.

H T O

$$5 \times 919 = 5 \times (900 + 10 + 9)$$

Secondly, let's interpret the expression

$$5 \times (900 + 10 + 9)$$

The expression shows that one side length of the model will be 5 and the other side length will be $(900 + 10 + 9)$.

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

