mathskills4kids

Name: ..... Class: .....

Multiply 1 - digit numbers by 3 or 4 - digit numbers using area models

1. Draw a model that represents 5 x 3,478.

First of all break the 3,478 into the respective place values.

2. Find the product of 3 x 628 using the area model

3. Draw a model that represents 4 x 798

© http://mathskills4kids.com

Solution

mathskills4kids

Name: ..... Class: .....

Multiply 1 - digit numbers by 3 or 4 - digit numbers using area models

1. Draw a model that represents 5 x 3,478.

First of all break the 3,478 into the respective place values.

TH H T O

5 x 3,478 = 5 x (3000 + 400 + 70 + 8).

Secondly, let's interpret the expression

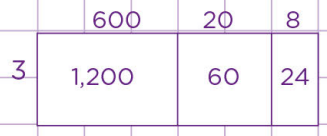
5 x (3000 + 400 + 70 + 8).

The expression shows that one side length of the model will be 5 and the other side length will be (3000 + 400 + 70 + 8).

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

2. Find the product of 3 x 628 using the area model

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



Finally, let's add all the figures in each section to get the area of the model

1,200 + 60 + 24 = 1, 284.

So, 3 x 628 = 1, 284

3. Draw a model that represents 4 x 798

First of all, let's break the 3,478 into the respective place values

H T O

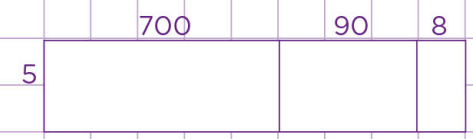
4 x 798 = 4 x (700 + 90 + 8).

Secondly, let's interpret the expression

4 x (700 + 90 + 8).

The expression shows that one side length of the model will be 4 and the other side length will be (700 + 90 + 8).

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



© http://mathskills4kids.com