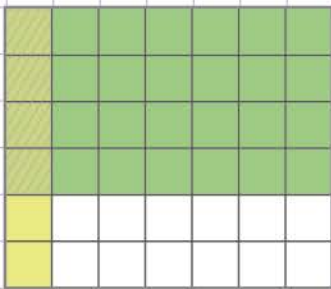


Name: ..... Class: .....

## Multiply 2 fractions using models

Use the model to find the product. (Do not simplify).



**Step 1**

The model has 7 columns. Out of the 7 columns, 1 is shaded. The shaded columns defines the fraction :  $\frac{1}{7}$

**Step 2**

The model has 6 rows. Out of the 6 rows, 4 are shaded. The shaded rows defines the fraction :  $\frac{4}{6}$

**Step 3**

The model has 1 shaded column and 4 shaded rows. So the product is **the part where the shaded columns and rows overlap.**

**Step 4**

- The part with overlaps covers 1 column and 4 rows. Therefore, there are 4 sections with overlap.

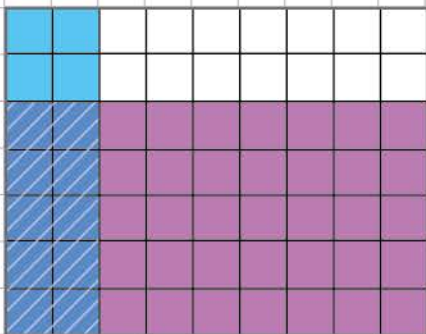
- The whole model has 7 columns and 6 rows. Therefore, there are  $6 \times 7 = 42$  sections in total.

**Step 5**

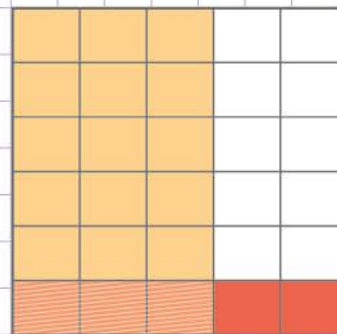
There are 4 sections with overlap out of 42 sections in total. Therefore, the product is :  $\frac{4}{42}$

So,  $\frac{1}{7} \times \frac{4}{6} = \frac{4}{42}$

**a.** Use the model below to find the product.      **b.** Use the model below to find the product.



So,  $\frac{2}{9} \times \frac{5}{7} =$

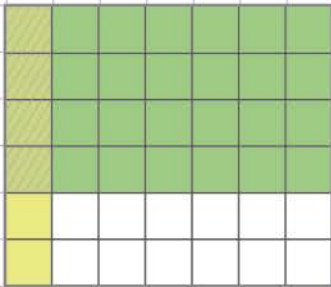


So,  $\frac{3}{5} \times \frac{1}{6} =$

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

Multiply 2 fractions using models

Use the model to find the product. (Do not simplify).



**Step 1**

The model has 7 columns. Out of the 7 columns, 1 is shaded. The shaded columns defines the fraction :  $\frac{1}{7}$

**Step 2**

The model has 6 rows. Out of the 6 rows, 4 are shaded. The shaded rows defines the fraction :  $\frac{4}{6}$

**Step 3**

The model has 1 shaded column and 4 shaded rows. So the product is **the part where the shaded columns and rows overlap.**

**Step 4**

- The part with overlaps covers 1 column and 4 rows. Therefore, there are 4 sections with overlap.
- The whole model has 7 columns and 6 rows. Therefore, there are  $6 \times 7 = 42$  sections in total.

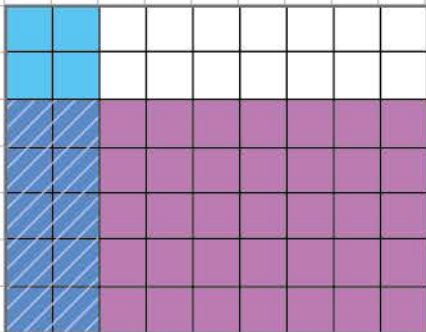
**Step 5**

There are 4 sections with overlap out of 42 sections in total. Therefore, the product is :  $\frac{4}{42}$

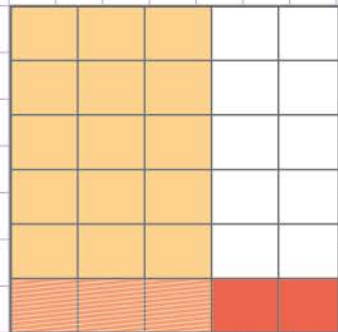
So,  $\frac{1}{7} \times \frac{4}{6} = \frac{4}{42}$

a. Use the model below to find the product.

b. Use the model below to find the product.



So,  $\frac{2}{9} \times \frac{5}{7} = \frac{10}{63}$



So,  $\frac{3}{5} \times \frac{1}{6} = \frac{3}{30}$