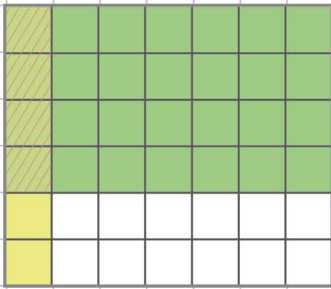


Name: ..... Class: .....

# 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.

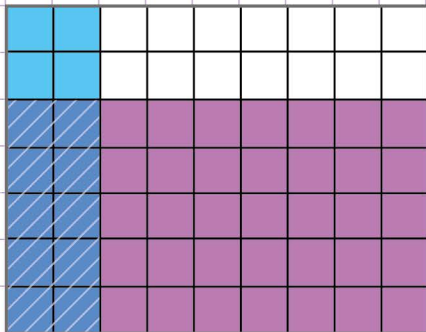
- The whole model has 7 columns and 6 rows. Therefore, there are  $6 \times 7 = 42$  sections in total.

## Step 5

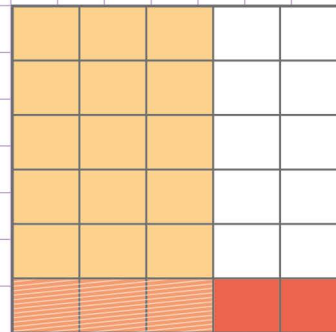
There are 4 sections with overlap out of 42 sections in total. Therefore, the product is :  $\frac{4}{42}$

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

1. Use the model below to find the product
2. Use the model below to find the product



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



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

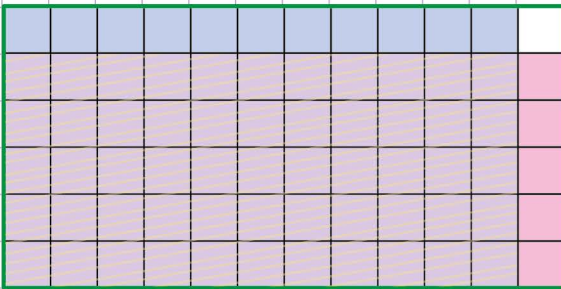
Name: ..... Class: .....



## Multiply 2 fractions using models

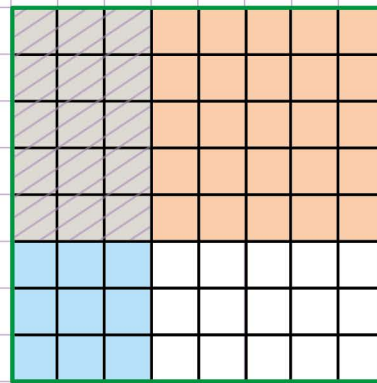


3. Use the model below to find the product



$$\text{So, } \frac{11}{12} \times \frac{5}{6} = \frac{55}{132}$$

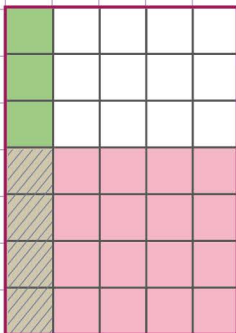
4. Use the model below to find the product



$$\frac{3}{8} \times \frac{5}{8} = \frac{15}{64}$$

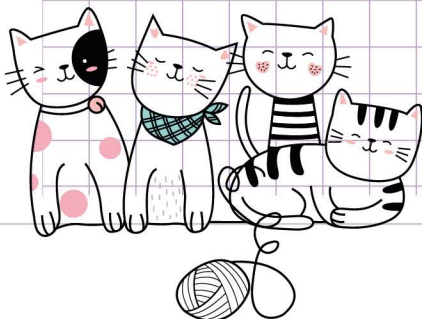
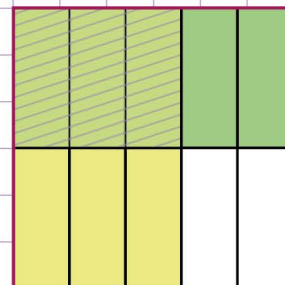
5. Shade the models below, to solve the given product.

$$\frac{4}{7} \times \frac{1}{5} = \frac{4}{35}$$



6. Shade the models below, to solve the given product.

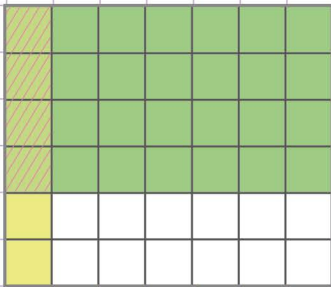
$$\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$$



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.

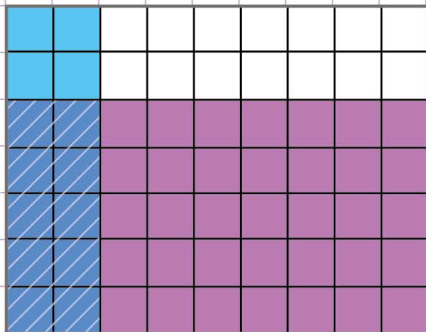
- The whole model has 7 columns and 6 rows. Therefore, there are  $6 \times 7 = 42$  sections in total.

### Step 5

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

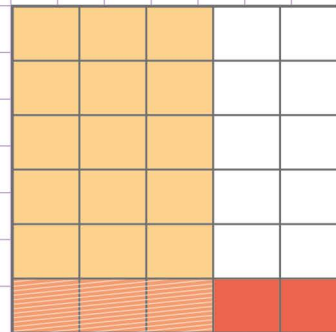
$$\text{So, } \frac{1}{7} \times \frac{4}{6} = \frac{4}{42}$$

1. Use the model below to find the product



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

2. Use the model below to find the product



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



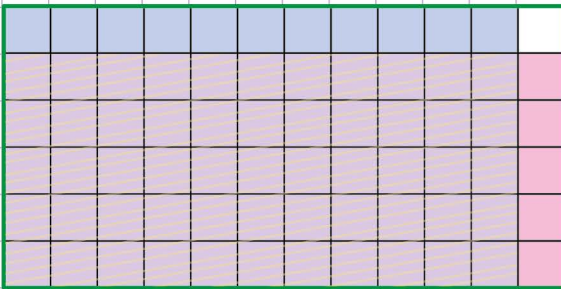
Name: ..... Class: .....



## Multiply 2 fractions using models

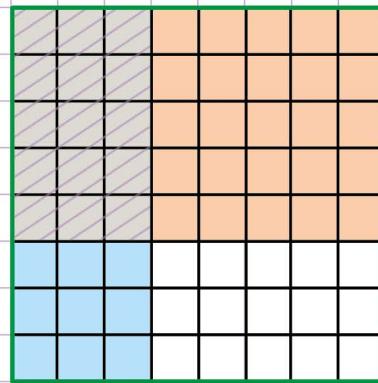


3. Use the model below to find the product



$$\text{So, } \frac{11}{12} \times \frac{5}{6} =$$

4. Use the model below to find the product



$$\frac{3}{8} \times \frac{5}{8} =$$

5. Shade the models below, to solve the given product.

$$\frac{4}{7} \times \frac{1}{5} = \frac{4}{35}$$

6. Shade the models below, to solve the given product.

$$\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$$

