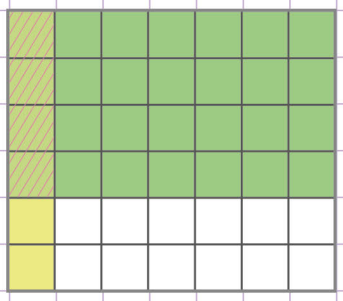
Name: ..... Class: .....

# 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 colums and rows overlap.**

**Step 4**

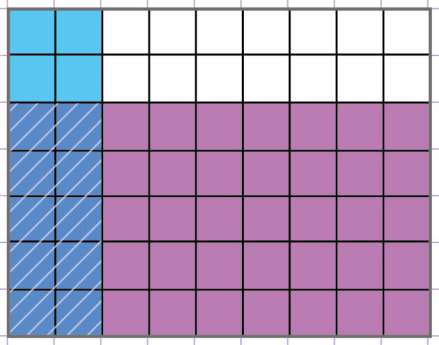
- The part with overlaps covers 1 column and 4 rows. Therefore, there are 4 sections with overlap.
- The whole model has 7 columns and 6 rows. Therefore, there are **6 x 7 = 42 sections** in total.

**Step 5**

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

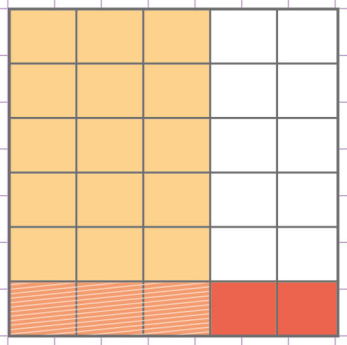
So, $\frac{1}{7} \times \frac{4}{6} = \frac{4}{42}$

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



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

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



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

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Solution

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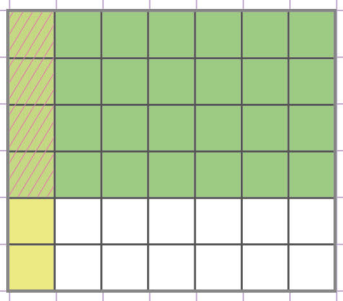
# Multiply 2 fractions using models

**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 colums and rows overlap.**

**Step 4**

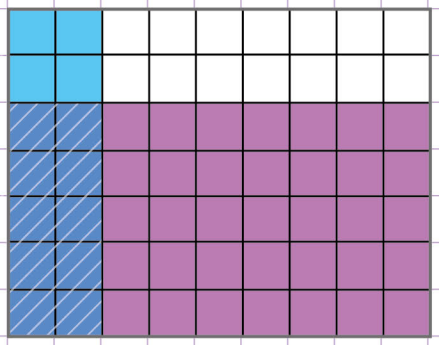
- The part with overlaps covers 1 column and 4 rows. Therefore, there are 4 sections with overlap.
- The whole model has 7 columns and 6 rows. Therefore, there are **6 x 7 = 42 sections** in total.

**Step 5**

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

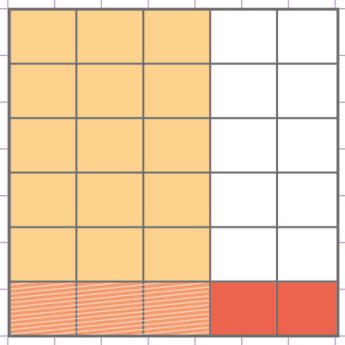
So, $\frac{1}{7} \times \frac{4}{6} = \frac{4}{42}$

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



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

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



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

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Solution

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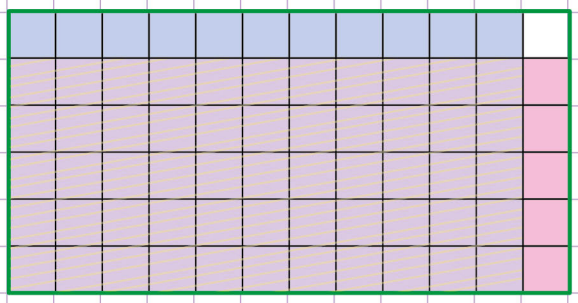
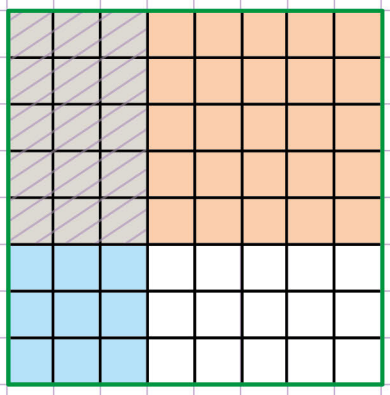
# Multiply 2 fractions using models

**c.** Use the model below to find the product



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

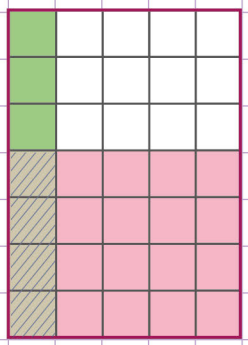
**d.** Use the model below to find the product



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

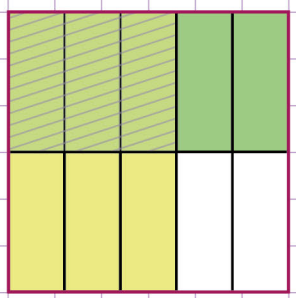
**e.** Shade the models below, to solve the given product.

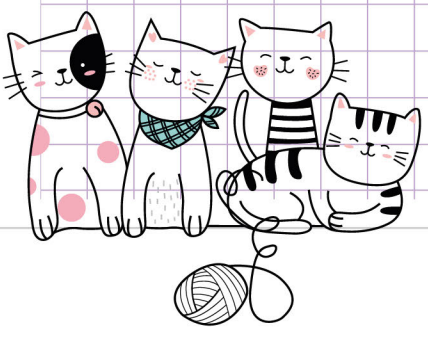
$\frac{4}{7} \times \frac{1}{5} = \frac{4}{35}$



**f.** Shade the models below, to solve the given product.

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





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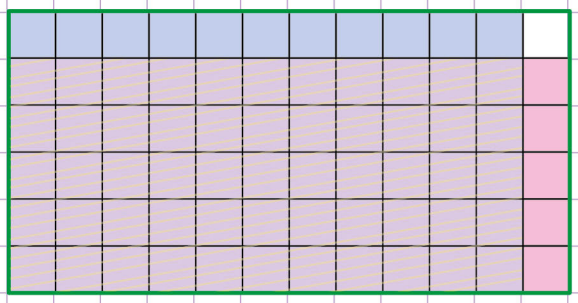
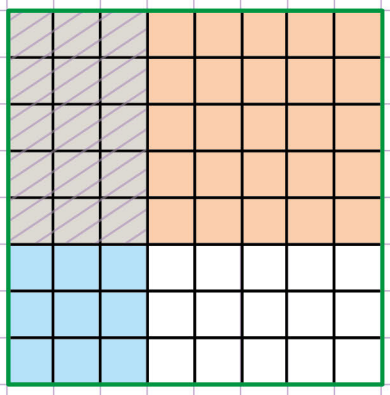
# Multiply 2 fractions using models

**c.** Use the model below to find the product



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

**d.** Use the model below to find the product



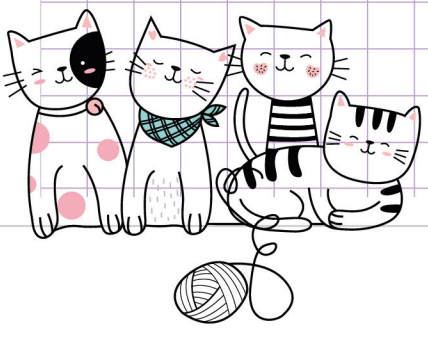
$\frac{3}{8} \times \frac{5}{8} =$

**e.** Shade the models below, to solve the given product.

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

**f.** Shade the models below, to solve the given product.

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



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