

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

Multiply two unit fractions using models.

Multiply the following fractions using models

a.  $\frac{1}{8} \times \frac{1}{4}$



b.  $\frac{1}{3} \times \frac{1}{7}$

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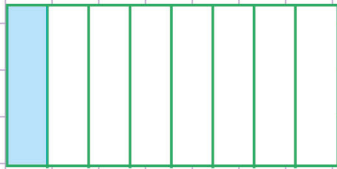
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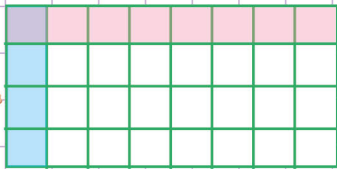
Let's first of all draw the frame of our model and model  $\frac{1}{8}$  and  $\frac{1}{4}$

To do this, let's divide the frame in to 8 equal columns since the denominator is 8  
Then, let's shade 1 out of the 8 colums to represent  $\frac{1}{8}$



Then, let's model  $\frac{1}{4}$

To do this, let's divide the frame into 4 equal rows since the denominator is 4. Then we shade out 1 of the 4 rows to show  $\frac{1}{4}$



Finally, let's find the product.

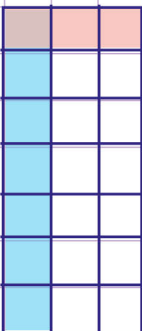
Count the overlapping squares to denote the numerator which is 1  
And then the total number of squares in the model to denote the dinominator which is 32

So,  $\frac{1}{8} \times \frac{1}{4} = \frac{1}{32}$



b.  $\frac{1}{3} \times \frac{1}{7}$

Let's draw the frame of our model and model  $\frac{1}{3}$  and  $\frac{1}{7}$



Finally, let's find the product.

Count the overlapping squares to denote the numerator which is 1  
And then the total number of squares in the model to denote the dinominator which is 21

So,  $\frac{1}{3} \times \frac{1}{7} = \frac{1}{21}$