

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

Multiply unit fractions by whole numbers using models: complete the equation

Complete the expression below using models, then find the product. Simplify your answer

a.  $3 \times \frac{2}{7} = \square \times \frac{1}{7} = \square$

b.  $2 \times \frac{2}{8} = \square \times \frac{1}{8} = \square = \square$

c.  $6 \times \frac{7}{12} = \square \times \frac{1}{12} = \square = \square$

d.  $7 \times \frac{2}{3} = \square \times \frac{1}{3} = \square = \square$

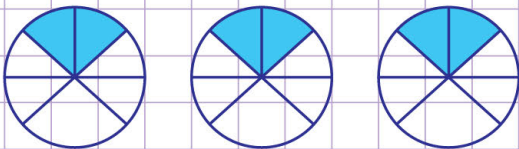
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Multiply unit fractions by whole numbers using models: complete the equation

Complete the expression below using models, then find the product. Simplify your answer

a.  $3 \times \frac{2}{7} = \boxed{6} \times \frac{1}{7} = \boxed{\frac{6}{7}}$

Let's first of all draw a model to represent the expression. We have to draw 3 whole shapes divided into 7 equal parts each and then shade 2 parts in each shape.



Note that, each part represent  $\frac{1}{7}$

Now, to find the products, let's count the shaded  $\frac{1}{7}$  parts.

You see that, there are six  $\frac{1}{7}$  shaded parts in all.

So, the missing number is 6.

Which implies that  $3 \times \frac{2}{7} = 6 \times \frac{1}{7}$

To find the product, let's write six  $\frac{1}{7}$  shaded parts in fraction form, which is equal to  $\frac{6}{7}$

Therefore, the complete expression is  $3 \times \frac{2}{7} = 6 \times \frac{1}{7} = \frac{6}{7}$

b.  $2 \times \frac{2}{8} = \boxed{4} \times \frac{1}{8} = \boxed{\frac{4}{8}} = \boxed{\frac{1}{2}}$

c.  $6 \times \frac{7}{12} = \boxed{42} \times \frac{1}{12} = \boxed{\frac{42}{12}} = \boxed{3\frac{1}{2}}$

d.  $7 \times \frac{2}{3} = \boxed{14} \times \frac{1}{3} = \boxed{\frac{14}{3}} = \boxed{4\frac{2}{3}}$