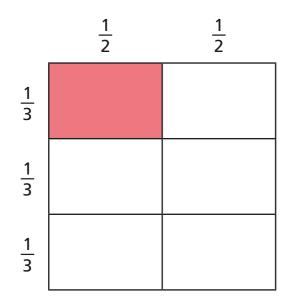
Multiply fractions by fractions



1 Dexter works out $\frac{1}{2} \times \frac{1}{3}$ using a grid method.



Explain how this shows $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

2 Shade the diagrams to show the fraction multiplications.
Complete the multiplications.

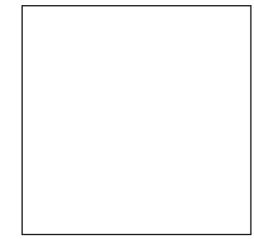
a)
$$\frac{1}{2} \times \frac{1}{4} =$$

	2	2
<u>1</u>		

b) $\frac{1}{2} \times \frac{2}{3} =$	
--	--

	2	2
<u>1</u>		
<u>1</u>		
<u>1</u>		

3 a) Divide the square to show that $\frac{2}{3} \times \frac{3}{4}$ is equal to $\frac{6}{12}$



b) Mo says $\frac{2}{3} \times \frac{3}{4}$ is equal to $\frac{1}{2}$

Is Mo correct? _____

Explain your answer.

- Complete the calculations.
 - a) $\frac{1}{4} \times \frac{1}{5} =$

e) $\frac{3}{4} \times \frac{1}{5} =$

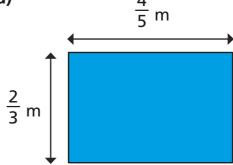
b) $\frac{1}{5} \times \frac{1}{6} =$

f) $\frac{2}{5} \times \frac{5}{6} =$

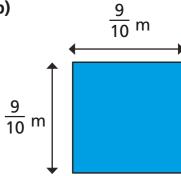
- g) $\frac{5}{7} \times \frac{5}{8} =$
- d) $\frac{1}{8} \times \frac{1}{9} \times \frac{1}{10} =$
- **h)** $\frac{3}{8} \times \frac{2}{9} \times \frac{3}{10} =$
- Use the diagram to complete the calculations.
 - a) $\frac{1}{3}$ of $\frac{1}{4}$ =
 - **b)** $\frac{2}{3}$ of $\frac{3}{4}$ =
 - c) What do you notice about your answers? Talk to your partner.
- Fill in the missing numbers.
 - a) $\frac{1}{10} = \frac{1}{2} \times \frac{1}{10}$
- Fill in the missing numbers.

Calculate the area of the shapes.

a)



b)



Work out the area of the shaded part.

