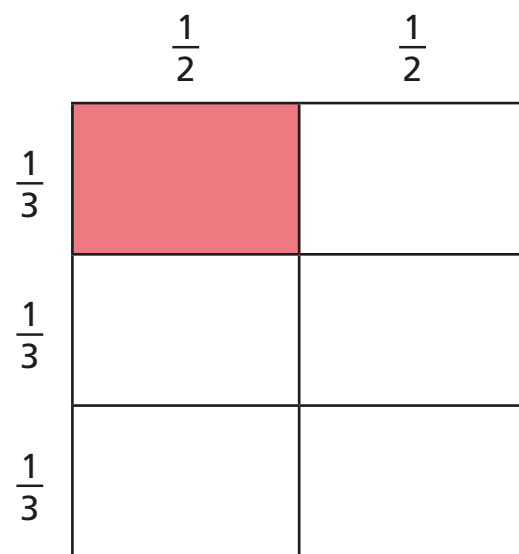


Multiply fractions by fractions

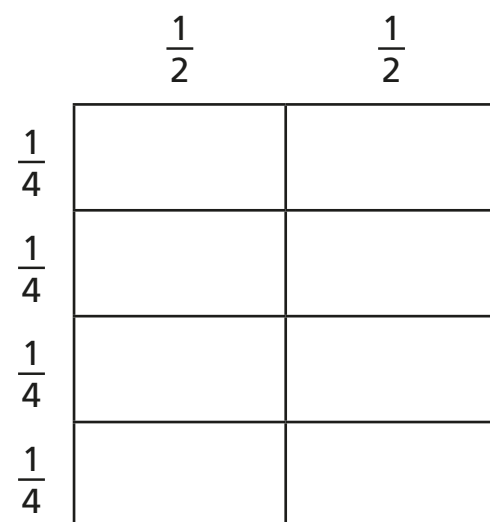
- 1 Dexter works out $\frac{1}{2} \times \frac{1}{3}$ using a grid method.



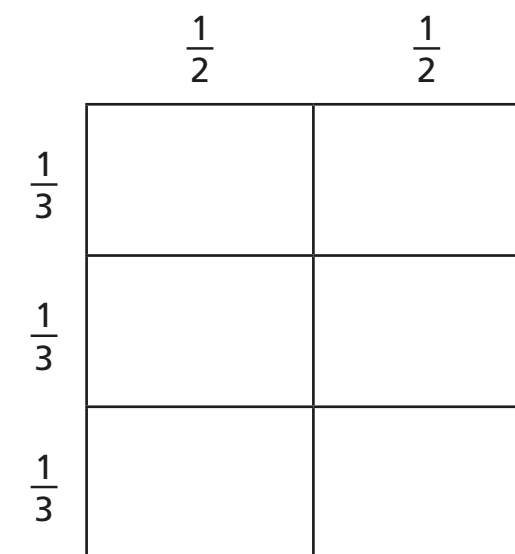
Explain how this shows $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

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

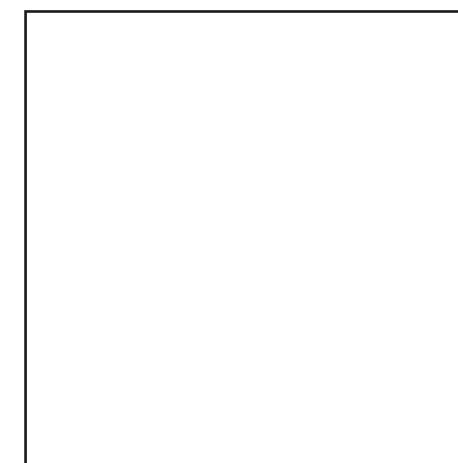
a) $\frac{1}{2} \times \frac{1}{4} =$



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



- 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.



4 Complete the calculations.

a) $\frac{1}{4} \times \frac{1}{5} = \boxed{}$

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

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

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

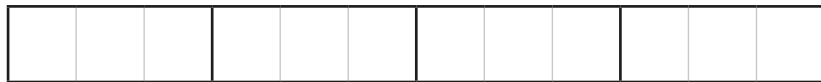
c) $\boxed{} = \frac{1}{7} \times \frac{1}{8}$

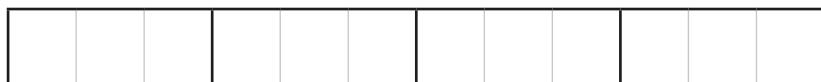
g) $\frac{5}{7} \times \frac{5}{8} = \boxed{}$

d) $\frac{1}{8} \times \frac{1}{9} \times \frac{1}{10} = \boxed{}$

h) $\frac{3}{8} \times \frac{2}{9} \times \frac{3}{10} = \boxed{}$

5 Use the diagram to complete the calculations.

a) $\frac{1}{3}$ of $\frac{1}{4} = \boxed{}$ 

b) $\frac{2}{3}$ of $\frac{3}{4} = \boxed{}$ 

c) What do you notice about your answers?
Talk to your partner.



6 Fill in the missing numbers.

a) $\frac{1}{10} = \frac{1}{2} \times \frac{1}{\boxed{}}$

b) $\frac{1}{5} \times \frac{\boxed{}}{3} = \frac{2}{15}$

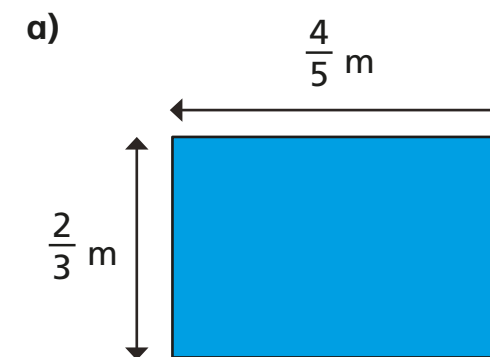
7 Fill in the missing numbers.

a) $\frac{1}{10} = \frac{\boxed{}}{4} \times \frac{\boxed{}}{5}$

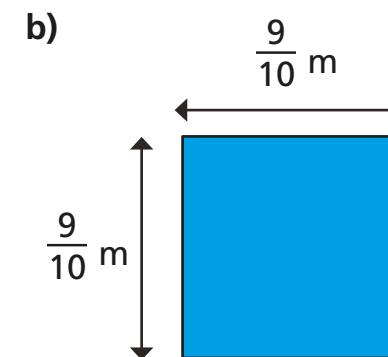
b) $\frac{1}{4} = \frac{\boxed{}}{4} \times \frac{\boxed{}}{5}$



8 Calculate the area of the shapes.



Area = $\boxed{}$ m²



Area = $\boxed{}$ m²

9 Work out the area of the shaded part.

