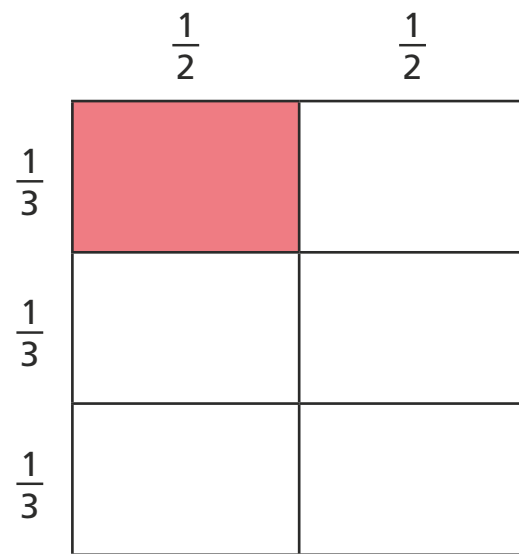


Multiply fractions by fractions

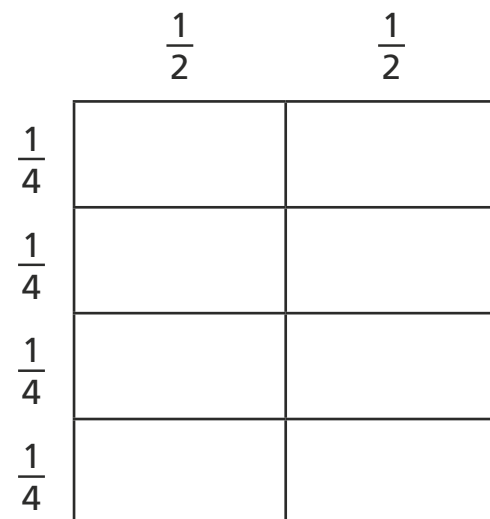
- 1 Dexter works out $\frac{1}{2} \times \frac{1}{3}$ using a grid method.



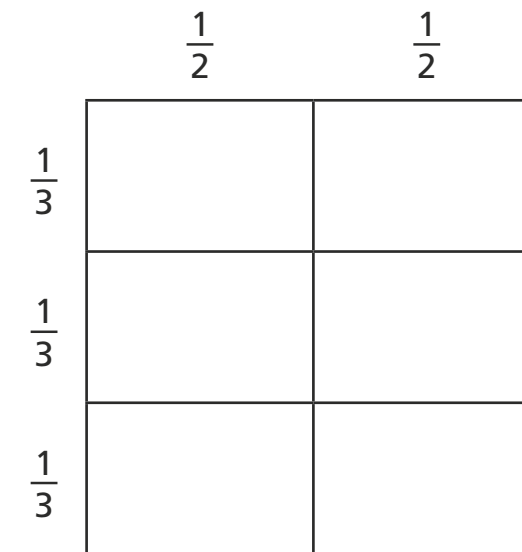
Explain how this shows $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

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

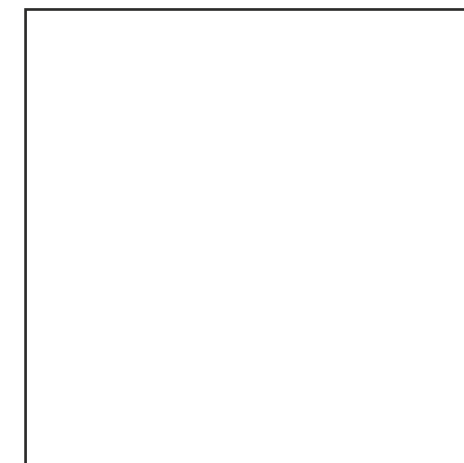
a) $\frac{1}{2} \times \frac{1}{4} = \square$



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



- 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) $\frac{1}{4} \times \frac{1}{5} =$

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

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

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

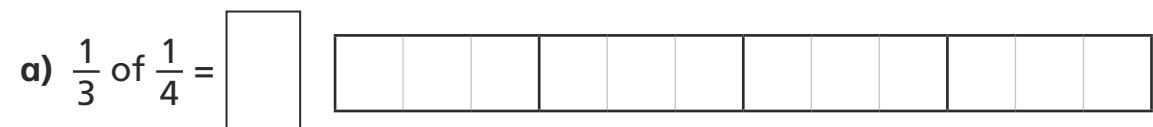
c) $= \frac{1}{7} \times \frac{1}{8}$

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

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

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

5 Use the diagram to complete the calculations.



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

6 Fill in the missing numbers.

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

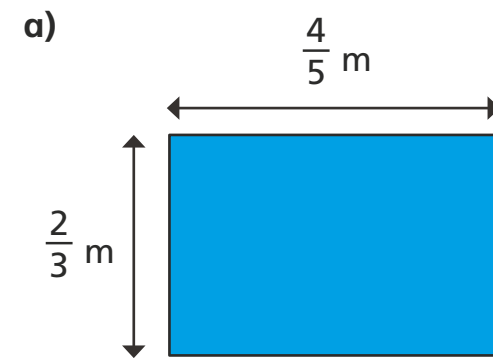
b) $\frac{1}{5} \times \frac{\text{input}}{3} = \frac{2}{15}$

7 Fill in the missing numbers.

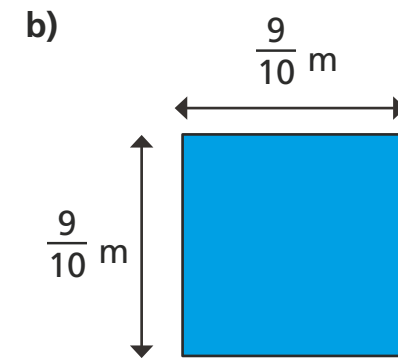
a) $\frac{1}{10} = \frac{\text{input}}{4} \times \frac{\text{input}}{5}$

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

8 Calculate the area of the shapes.



Area = m²



Area = m²

9 Work out the area of the shaded part.

