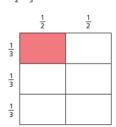
Multiply fractions by fractions



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



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

- Shade the diagrams to show the fraction multiplications. Complete the multiplications.
 - a) $\frac{1}{2} \times \frac{1}{4} =$

	1/2	1/2
1/4		
1/4 1/4		
1/4		

	1/2	1/2
1/3		
1 3		
1/3		

- 3 a) Use the grid method 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.
- e) $\frac{3}{4} \times \frac{1}{5}$

- **b)** $\frac{1}{5} \times \frac{1}{6}$
- h) $\frac{3}{8} \times \frac{2}{9} \times \frac{3}{10}$
- c) $\frac{1}{7} \times \frac{1}{8}$

6 Fill in the missing numbers.

7 Fill in the missing numbers. a) $\frac{1}{10} = \frac{1}{4} \times \frac{1}{5}$

- f) $\frac{2}{5} \times \frac{5}{6}$
- 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.

a) $\frac{1}{10} = \frac{1}{2} \times \frac{1}{10}$ b) $\frac{1}{5} \times \frac{1}{3} = \frac{2}{15}$

Multiply fractions by integers



- 3 a) Use the grid method 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)
$$\frac{1}{4} \times \frac{1}{4} \times \frac$$

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

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

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

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

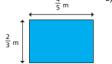
h)
$$\frac{3}{9} \times \frac{2}{9} \times \frac{3}{4}$$

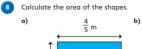
c)
$$\frac{1}{7} \times \frac{1}{6}$$

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

$$6 + \frac{2}{5} \times \frac{3}{6}$$

c) $\frac{1}{7} \times \frac{1}{8}$ f) $\frac{2}{5} \times \frac{5}{6}$







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

Use the diagram to complete the calculations

a)
$$\frac{1}{2}$$
 of $\frac{1}{4}$

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



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



