

Year 6

Tuesday 12th May 2020

Maths

LO: to multiply fractions by fractions

Please note: this link only works on either pdf or the link above this powerpoint.

The video lesson is available here – Summer Term - Week 4 - lesson 2



Brain Teaser

You have a basket containing ten apples. You have ten friends, who each desire an apple. You give each of your friends one apple.

Now all your friends have one apple each, yet there is an apple remaining in the basket.

How?



1:



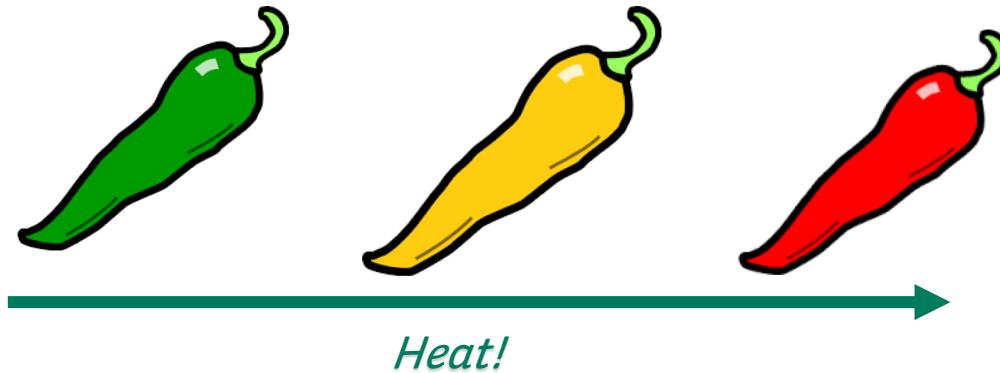
Sally eats $\frac{1}{2}$ of the chocolate bar.

She then eats $\frac{1}{2}$ of what is left.

As a fraction, how much of the chocolate bar is left?

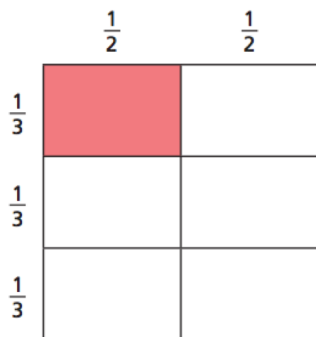


The independent work continues on the next two slides. There are 8 questions and 1 extension.



Multiply fractions by fractions

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



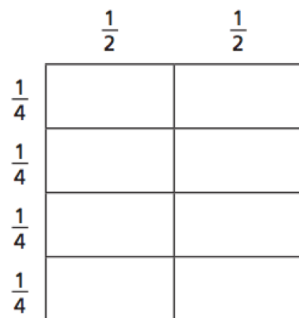
Explain how this shows $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

- 2 Shade the diagrams to show the fraction multiplications.

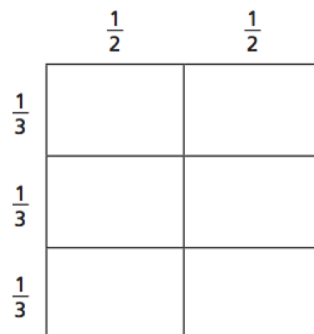


Complete the multiplications.

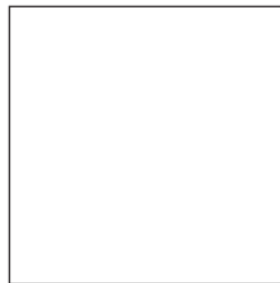
a) $\frac{1}{2} \times \frac{1}{4} = \square$



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

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

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

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

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


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

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

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

5 Use the diagram to complete the calculations.

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

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

c) What do you notice about your answers?

Talk to your partner.

6 Fill in the missing numbers.

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

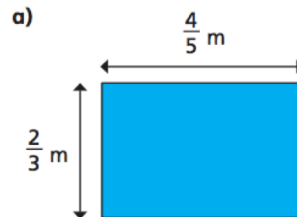
b) $\frac{1}{5} \times \frac{\square}{3} = \frac{2}{15}$

7 Fill in the missing numbers.

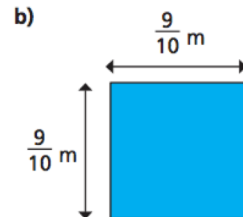
a) $\frac{1}{10} = \frac{\square}{4} \times \frac{\square}{5}$

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

8 Calculate the area of the shapes.



Area = \square m²



Area = \square m²

Ext

Work out the area of the shaded part.

