

Maths

Lesson 2

What do each of these words mean?

Fraction

Denominator

Numerator

Mixed fraction

Improper fraction

Proper fraction

Please watch the following video

<https://classroom.thenational.academy/lessons/fractions-multiply-pairs-of-proper-fractions-c4rp4r>

When the video asks you to complete tasks these are the tasks that you need to complete

Question 1

Efficiently calculate each product and express it in its simplest form:

$$\text{a) } \frac{2}{3} \times \frac{2}{3} =$$

$$\text{c) } \frac{2}{3} \times \frac{3}{5} =$$

$$\text{b) } \frac{3}{4} \times \frac{1}{2} =$$

$$\text{d) } \frac{2}{5} \times \frac{3}{4} =$$

Question 2

Efficiently calculate each product and express it as a mixed number:

a) $5 \times \frac{2}{3} =$

c) $4 \times \frac{3}{5} =$

b) $\frac{3}{4} \times 3 =$

d) $\frac{2}{5} \times 7 =$

Question 3

Fill in the missing values in the calculations below:

a) $\frac{3}{5} \times \frac{3}{\square} = \frac{\square}{20}$

c) $\frac{5}{8} \times \frac{4}{\square} = \frac{2}{20} \times \frac{\square}{2}$

b) $\frac{3}{\square} \times \frac{\square}{3} = \frac{6}{21}$

d) $\frac{\square}{4} \times \frac{8}{9} = \frac{6}{\square} \times \frac{4}{6}$

Question 4

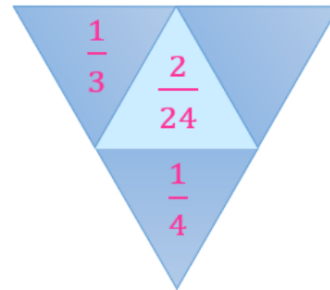
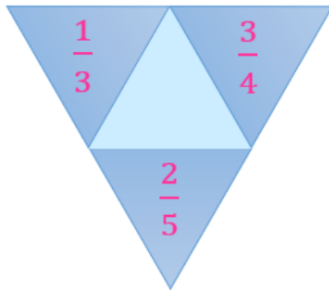
There is $\frac{3}{7}$ of a cake in a tin. I eat $\frac{4}{5}$ of what is remaining for breakfast.

What fraction of the cake did I eat?



Question 5

The values in the outer triangles multiply together to produce the fraction in the central triangle. Complete the values of the missing shapes.



If you find this tricky have a go at these instead:

Complete these fraction multiplications.

1 $\frac{1}{2}$ of $\frac{1}{5}$

2 $\frac{1}{4}$ of $\frac{1}{7}$

3 $\frac{1}{4}$ of $\frac{1}{9}$

4 $\frac{1}{2}$ of $\frac{1}{10}$

5 $\frac{1}{4} \times \frac{1}{6}$

6 $\frac{1}{2} \times \frac{1}{8}$

7 $\frac{1}{2} \times \frac{1}{4}$

8 $\frac{1}{4} \times \frac{1}{4}$

3 Draw diagrams to help you work out these calculations. Give each answer in its simplest form.

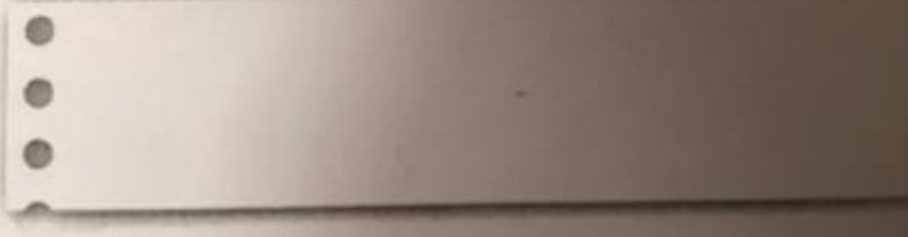
a) $\frac{3}{4} \times \frac{2}{5} = \frac{\square}{\square}$

b) $\frac{2}{3}$ of $\frac{5}{6} = \frac{\square}{\square}$



Reflect

Draw a diagram to show why $\frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$.



Challenge for everyone

How many ways can you complete the missing digits?

$$\begin{array}{r}
 \text{☀} \\
 \hline
 \text{☀}
 \end{array}
 \times \begin{array}{r}
 3 \\
 \hline
 \text{☀}
 \end{array}
 = \frac{6}{12}$$

$$= \frac{\text{☀}}{2}$$