



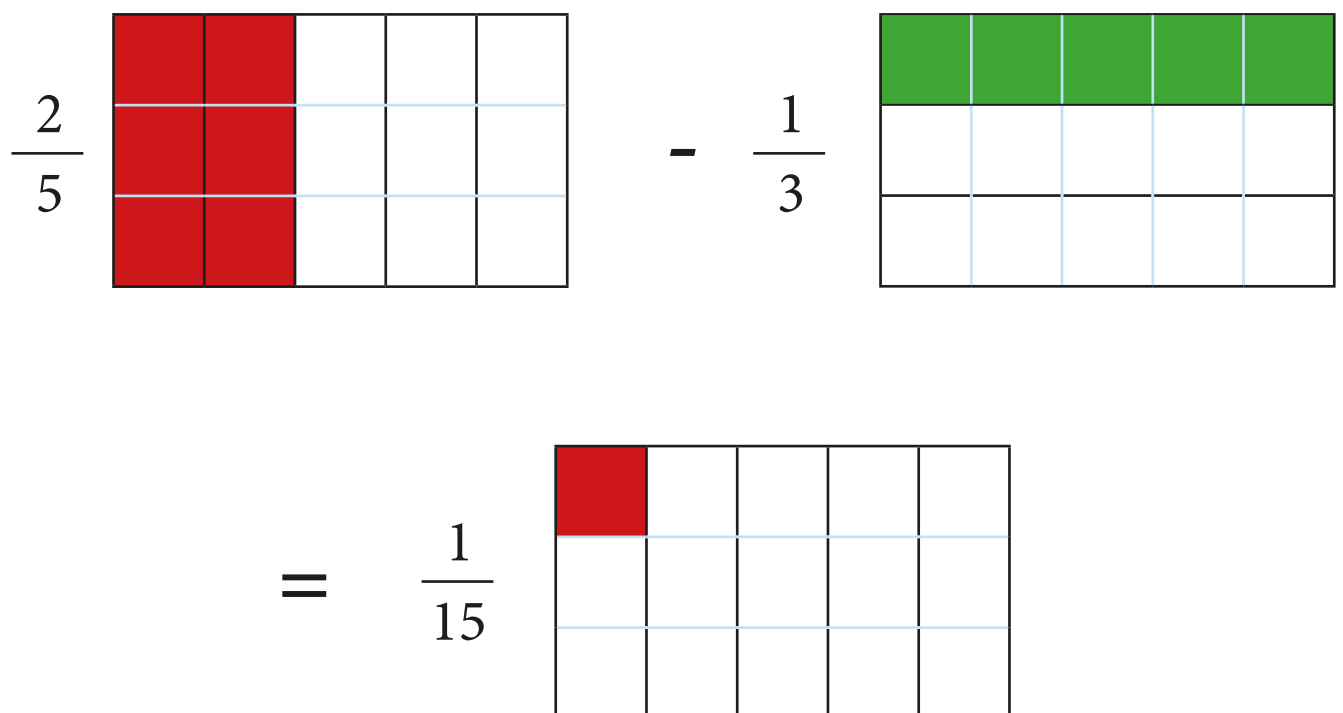
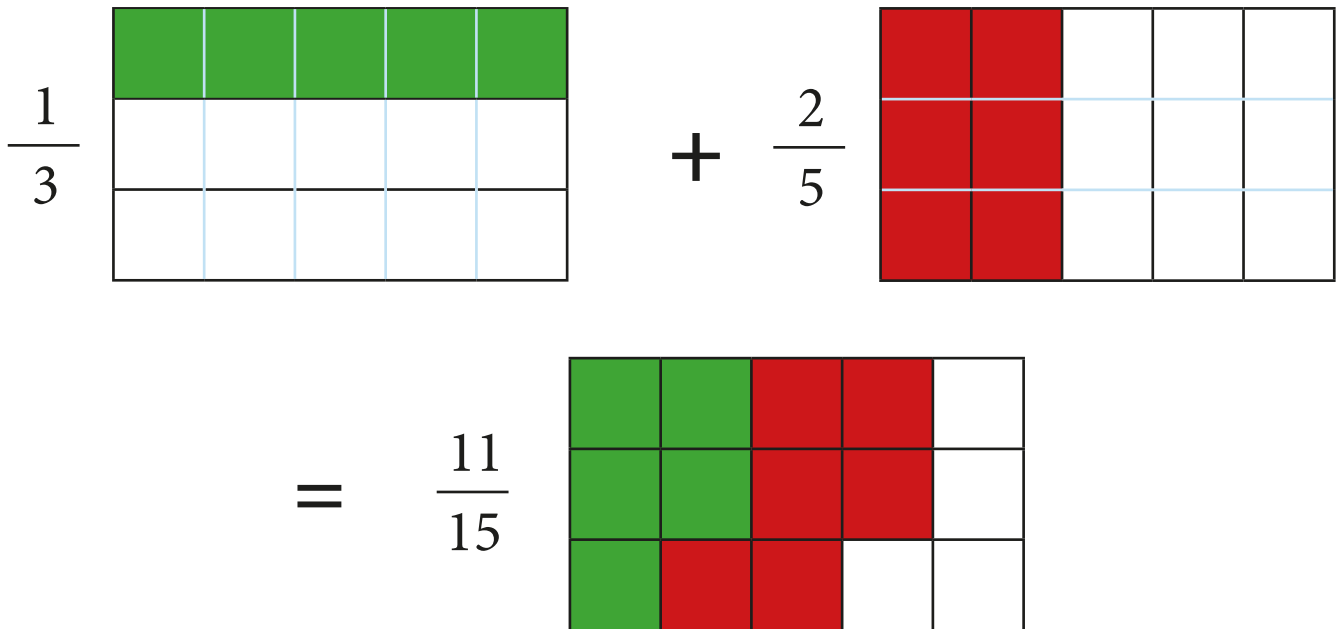
OxBridge Centre  
ENGLAND

# Facebook Live



**Wednesday 22nd April 2020**

# Adding and Subtracting Fractions



## Steps:

A: Draw each fraction as a fraction of a rectangle.  
Remember to draw one horizontally and the other vertically.

B: Draw a rectangle for the answer.  
Split it both horizontally and vertically.

C: Count the number of squares needed for each fraction being added and shade them in!

$$\begin{array}{l} 1. \quad \frac{1}{2} + \frac{1}{6} = \frac{?}{?} \\ 2. \quad \frac{3}{4} - \frac{3}{5} = \frac{?}{?} \\ 3. \quad \frac{2}{3} + \frac{6}{7} = \frac{?}{?} \\ 4. \quad \frac{5}{6} - \frac{3}{4} = \frac{?}{?} \end{array}$$

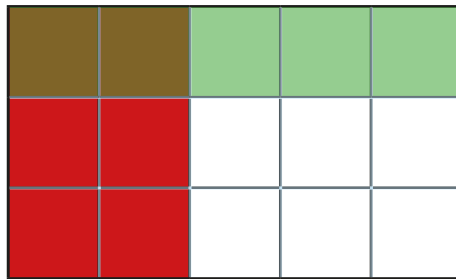
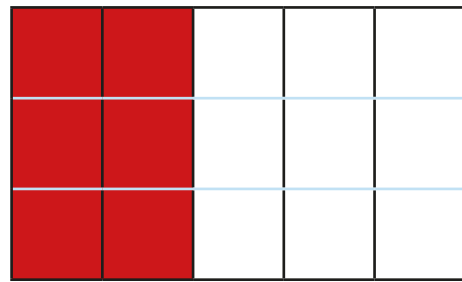
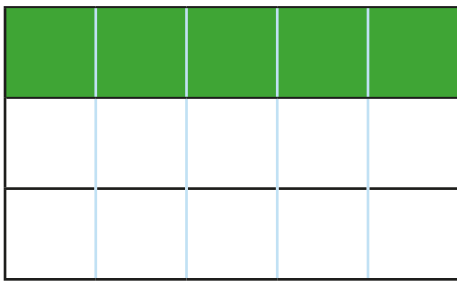
Why does this work?

# Multiplying Fractions

$$\frac{1}{3}$$

**X**

$$\frac{2}{5}$$



$$= \frac{2}{15}$$

## Steps:

A: Draw a rectangle for the answer. Split it both horizontally and vertically for each multiplicand.

B: Shade in each multiplicand in two different colours or directions, allowing them to overlap.

C: Count the number of squares that are overlapped. This is your numerator, the total number of squares is the denominator.

$$\begin{array}{l}
 1. \quad \frac{1}{2} \quad \mathbf{X} \quad \frac{1}{6} \quad = \quad \frac{?}{?} \\
 2. \quad \frac{3}{4} \quad \mathbf{X} \quad \frac{3}{5} \quad = \quad \frac{?}{?} \\
 3. \quad \frac{2}{3} \quad \mathbf{X} \quad \frac{6}{7} \quad = \quad \frac{?}{?} \\
 4. \quad \frac{5}{6} \quad \mathbf{X} \quad \frac{3}{4} \quad = \quad \frac{?}{?}
 \end{array}$$

Why does this work?

# Dividing Fractions

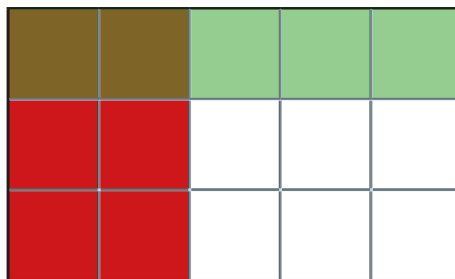
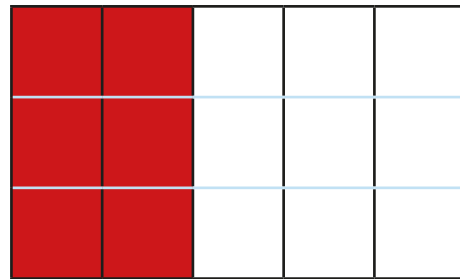
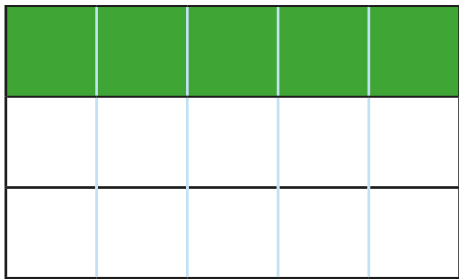
Dividend

$$\frac{1}{3}$$

÷

Divisor

$$\frac{2}{5}$$



$$= \frac{5}{6}$$

## Steps:

A: Draw a rectangle for the answer. Split it both horizontally and vertically for each fraction.

B: Shade in each fraction in two different colours or directions, allowing them to overlap.

C: Count the number of squares shaded for the dividend. This is the numerator!

D: Count the number of squares shaded for the divisor. This is the denominator.

$$\begin{array}{l}
 1. \quad \frac{1}{2} \div \frac{1}{6} = \frac{?}{?} \\
 2. \quad \frac{3}{4} \div \frac{3}{5} = \frac{?}{?} \\
 3. \quad \frac{2}{3} \div \frac{6}{7} = \frac{?}{?} \\
 4. \quad \frac{5}{6} \div \frac{3}{4} = \frac{?}{?}
 \end{array}$$

Why does this work?