

# Multiplying Fractions

Multiplying fractions is quite easy! Here's how we do it:

## How to Multiply Fractions

There are three steps to multiplying fractions correctly:

1. Multiply the numerators (the top numbers)
2. Multiply the denominators (the bottom numbers)
3. Simplify the fraction if possible

**Example:**

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

We need to multiply the numerators, and then multiply the denominators.

$$\frac{2}{6} \times \frac{3}{5} = \frac{6}{30}$$

The final step is to simplify our answer. Remember, to simplify a fraction, you need to divide both the numerator and the denominator by the same (highest possible) number.

In this question, we can divide both the numerator and the denominator by 6.

$$\frac{6}{30} = \frac{1}{5}$$

Now have a go at multiplying some fractions yourself! Remember to simplify them wherever possible.

a.

$$\frac{2}{6} \times \frac{4}{7} = \text{---}$$

b.

$$\frac{2}{9} \times \frac{5}{8} = \text{---}$$

c.

$$\frac{4}{10} \times \frac{2}{3} = \text{---}$$

d.

$$\frac{8}{12} \times \frac{1}{2} = \text{---}$$

e.

$$\frac{3}{5} \times \frac{3}{9} = \text{---}$$

f.

$$\frac{3}{10} \times \frac{8}{18} = \text{---}$$

g.

$$\frac{1}{7} \times \frac{3}{4} = \text{---}$$

h.

$$\frac{5}{6} \times \frac{1}{2} = \text{---}$$



## Answers

a.  $\frac{4}{21}$

b.  $\frac{5}{36}$

c.  $\frac{4}{15}$

d.  $\frac{1}{3}$

e.  $\frac{1}{5}$

f.  $\frac{2}{15}$

g.  $\frac{3}{28}$

h.  $\frac{5}{12}$