

## LO: I can multiply fractions

There are 3 simple steps to multiply fractions

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

## LO: I can multiply fractions

Example:

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

**Step 1.** Multiply the top numbers:

$$\frac{1}{2} \times \frac{2}{5} = \frac{1 \times 2}{5} = \frac{2}{5}$$

**Step 2.** Multiply the bottom numbers:

$$\frac{1}{2} \times \frac{2}{5} = \frac{1 \times 2}{2 \times 5} = \frac{2}{10}$$

**Step 3.** [Simplify the fraction](#) :

$$\frac{2}{10} = \frac{1}{5}$$

LO: I can multiply fractions

Try:

$$2/4 \times 3/8 =$$

When there is a mixed number fraction, convert to improper then do the calculation.

LO: I can multiply fractions

Mild ( Q. number is at  
the end for some  
reason- sorry!)

$$\frac{1}{3} \times \frac{1}{3} = 1)$$

$$\frac{1}{5} \times \frac{1}{5} = 2)$$

$$\frac{1}{6} \times \frac{1}{6} = 3)$$

$$\frac{2}{7} \times \frac{4}{5} = 4)$$

$$\frac{1}{2} \times \frac{2}{5} = 5)$$

Spicy

$$1) \quad \frac{7}{9} \times \frac{4}{5} =$$

$$2) \quad \frac{6}{7} \times \frac{11}{12} =$$

$$3) \quad \frac{10}{11} \times \frac{12}{15} =$$

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

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

LO: I can multiply fractions

Mild

1.  $\frac{1}{4} \times \frac{1}{2} =$

6.  $\frac{1}{3} \times \frac{1}{6} =$

2.  $\frac{2}{5} \times \frac{1}{4} =$

7.  $\frac{3}{8} \times \frac{2}{3} =$

3.  $\frac{2}{3} \times \frac{1}{2} =$

8.  $\frac{1}{5} \times \frac{5}{8} =$

Spicy

1.  $\frac{3}{4} \times \frac{1}{3} =$

6.  $\frac{1}{2} \times \frac{2}{3} =$

2.  $\frac{2}{5} \times \frac{1}{3} =$

7.  $\frac{7}{12} \times \frac{2}{3} =$

3.  $\frac{4}{5} \times \frac{1}{6} =$

8.  $\frac{1}{4} \times \frac{5}{7} =$

LO: I can multiply fractions

Answers

Mild

1. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$	6. $\frac{1}{3} \times \frac{1}{6} = \frac{1}{18}$
2. $\frac{2}{5} \times \frac{1}{4} = \frac{2}{20}$ $\frac{1}{10}$	7. $\frac{3}{8} \times \frac{2}{3} = \frac{6}{24}$ $\frac{1}{4}$
3. $\frac{2}{3} \times \frac{1}{2} = \frac{2}{6}$ $\frac{1}{3}$	8. $\frac{1}{5} \times \frac{5}{8} = \frac{5}{40}$ $\frac{1}{8}$

Spicy

1. $\frac{3}{4} \times \frac{1}{3} = \frac{3}{12}$ $\frac{1}{4}$	6. $\frac{1}{2} \times \frac{2}{3} = \frac{2}{6}$ $\frac{1}{3}$
2. $\frac{2}{5} \times \frac{1}{3} = \frac{2}{15}$	7. $\frac{7}{12} \times \frac{2}{3} = \frac{14}{36}$ $\frac{7}{18}$
3. $\frac{4}{5} \times \frac{1}{6} = \frac{4}{30}$ $\frac{2}{15}$	8. $\frac{1}{4} \times \frac{5}{7} = \frac{5}{28}$

## LO: I know how to divide fractions

### There are 3 Simple Steps to Divide Fractions:

Step 1. Turn the second fraction (*the one you want to divide by*) upside down (this is now a **reciprocal**).

Step 2. **Multiply** the first fraction by that reciprocal

Step 3. **Simplify** the fraction (if needed)

## LO: I know how to divide fractions

Example:

$$\frac{1}{2} \div \frac{1}{6}$$

Step 1. Turn the second fraction upside down (it becomes a **reciprocal**):

$$\frac{1}{6} \text{ becomes } \frac{6}{1}$$

Step 2. Multiply the first fraction by that **reciprocal**:

*(multiply tops ...)*

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

*(... multiply bottoms)*

Step 3. Simplify the fraction:

$$\frac{6}{2} = 3$$



LO: I know how to divide fractions

Try:

$2/8$  divided by  $1/4$ =

LO: I know how to divide fractions

1.  $\frac{3}{5} \div 2 =$

2.  $\frac{1}{2} \div 2 =$

3.  $\frac{3}{4} \div 6 =$

4.  $\frac{5}{6} \div 2 =$

5.  $\frac{5}{8} \div 4 =$

6.  $\frac{1}{4} \div 7 =$

7.  $\frac{7}{8} \div 3 =$

8.  $\frac{7}{9} \div 5 =$

When you divide by a whole, make the denominator 1 to turn it into a fraction.

LO: I know how to divide fractions

Answers

1.  $\frac{3}{5} \div 2 = \frac{3}{10}$

2.  $\frac{1}{2} \div 2 = \frac{1}{4}$

3.  $\frac{3}{4} \div 6 = \frac{3}{24}$   
 $= \frac{1}{8}$

4.  $\frac{5}{6} \div 2 = \frac{5}{12}$

5.  $\frac{5}{8} \div 4 = \frac{5}{32}$

6.  $\frac{1}{4} \div 7 = \frac{1}{28}$

7.  $\frac{7}{8} \div 3 = \frac{7}{24}$

8.  $\frac{7}{9} \div 5 = \frac{7}{45}$

Please only do the next slide if you are **not** coming in to school at all.

LO: I know how to divide fractions

Mild ( is numbered 6 but is no.1)

6)  $\frac{1}{2} \div \frac{1}{4} =$

7)  $\frac{1}{5} \div \frac{3}{10} =$

8)  $\frac{1}{6} \div \frac{1}{12} =$

9)  $\frac{7}{2} \div \frac{5}{4} =$

10)  $\frac{9}{7} \div \frac{1}{14} =$

Spicy

$\frac{7}{9} \div \frac{4}{7} =$

$\frac{6}{7} \div \frac{11}{12} =$

$\frac{14}{15} \div \frac{8}{9} =$

$\frac{16}{17} \div \frac{21}{23} =$

$4\frac{1}{3} \div \frac{1}{2} =$