

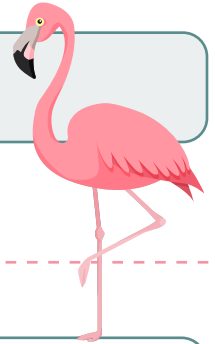
Multiplying Fractions by Fractions

To multiply a fraction by a fraction, multiply the numerators, and then multiply the denominators. Let's try it!

Solve $\frac{2}{3} \times \frac{1}{4}$.

Multiply the numerators and multiply the denominators. Make sure your answer is in simplest form.

$$\frac{2}{3} \times \frac{1}{4} = \frac{2 \times 1}{3 \times 4} = \frac{2}{12} = \frac{1}{6}$$



Try it yourself! Multiply. Show your work and write your final answer in simplest form.

$\frac{1}{4} \times \frac{1}{8} =$	$\frac{1 \times 1}{4 \times 8} = \frac{1}{32}$	$\frac{2}{3} \times \frac{1}{6} =$	$\frac{2 \times 1}{3 \times 6} = \frac{2}{18} = \frac{1}{9}$
$\frac{1}{2} \times \frac{1}{5} =$	$\frac{1 \times 1}{2 \times 5} = \frac{1}{10}$	$\frac{5}{6} \times \frac{1}{8} =$	$\frac{5 \times 1}{6 \times 8} = \frac{5}{48}$
$\frac{2}{9} \times \frac{1}{3} =$	$\frac{2 \times 1}{9 \times 3} = \frac{2}{27}$	$\frac{3}{4} \times \frac{1}{6} =$	$\frac{3 \times 1}{4 \times 6} = \frac{3}{24} = \frac{1}{8}$
$\frac{5}{8} \times \frac{4}{5} =$	$\frac{5 \times 4}{8 \times 5} = \frac{20}{40} = \frac{1}{2}$	$\frac{2}{5} \times \frac{3}{10} =$	$\frac{2 \times 3}{5 \times 10} = \frac{6}{50} = \frac{3}{25}$
$\frac{6}{7} \times \frac{2}{5} =$	$\frac{6 \times 2}{7 \times 5} = \frac{12}{35}$	$\frac{1}{4} \times \frac{7}{12} =$	$\frac{1 \times 7}{4 \times 12} = \frac{7}{48}$
$\frac{7}{9} \times \frac{2}{3} =$	$\frac{7 \times 2}{9 \times 3} = \frac{14}{27}$	$\frac{4}{9} \times \frac{3}{7} =$	$\frac{4 \times 3}{9 \times 7} = \frac{12}{63} = \frac{4}{21}$
$\frac{9}{10} \times \frac{5}{6} =$	$\frac{9 \times 5}{10 \times 6} = \frac{45}{60} = \frac{3}{4}$	$\frac{11}{12} \times \frac{2}{5} =$	$\frac{11 \times 2}{12 \times 5} = \frac{22}{60} = \frac{11}{30}$