

# Multiplying Mixed Numbers by Fractions

You can multiply a mixed number by a fraction. Start by writing the mixed number as an improper fraction to make the multiplication easier. Then, multiply. Let's try it! Solve  $1\frac{3}{4} \times \frac{3}{5}$ .

First, write the mixed number as an improper fraction.

$$1\frac{3}{4} = \frac{7}{4}$$

Next, multiply the numerators, and then multiply the denominators. Make sure your answer is in simplest form. To simplify an improper fraction, you can rewrite it as a mixed number.

$$\frac{7}{4} \times \frac{3}{5} = \frac{7 \times 3}{4 \times 5} = \frac{21}{20} = 1\frac{1}{20}$$



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

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

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

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

$$5\frac{1}{2} \times \frac{3}{4} =$$

$$\frac{5}{8} \times 2\frac{2}{3} =$$

$$2\frac{4}{9} \times \frac{3}{5} =$$

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

$$\frac{5}{12} \times 6\frac{2}{5} =$$