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## 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.

| $4 \frac{1}{2} \times \frac{1}{3}=\frac{9}{2} \times \frac{1}{3}=\frac{9}{6}=1 \frac{1}{2}$ | $\frac{1}{4} \times 4 \frac{4}{5}=$ |
| :--- | :--- |
| $3 \frac{1}{3} \times \frac{4}{5}=$ | $\frac{10}{3} \times \frac{4}{5}=\frac{40}{15}=2 \frac{24}{3}=\frac{24}{20}=1 \frac{1}{5}$ |
| $\frac{5}{8} \times 2 \frac{2}{3}=$ | $\frac{5}{8} \times \frac{8}{3}=\frac{40}{24}=1 \frac{2}{3} \times \frac{3}{4}=$ |
| $\frac{3}{4} \times 1 \frac{5}{6}=$ | $\frac{3}{4} \times \frac{11}{2} \times \frac{3}{5}=\frac{32}{9} \times \frac{33}{5}=\frac{3}{9}=1 \frac{3}{8}$ |

