

# Dividing Fractions

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## Process for Dividing Fractions

1. If mixed numbers are present, change them to improper fractions.
2. Change division to multiplication.
3. Flip the second fraction (divisor) to its reciprocal.
4. Follow process for multiplication of fractions.
5. Simplify if possible.

Example:

$$\begin{aligned}\frac{4}{5} \div \frac{5}{9} &= \frac{4}{5} \cdot \frac{9}{5} \\ &= \frac{36}{25} \\ &= 1 \frac{11}{25}\end{aligned}$$

Example:

$$\begin{aligned}-2\frac{3}{5} \div -5\frac{1}{2} \\ \frac{-13}{5} \div \frac{-11}{2} \\ \frac{-13}{5} \cdot \frac{-2}{11} = \frac{26}{55}\end{aligned}$$