Dividing Rationals

Just like we divide the fractions $\frac{1}{3}/\frac{4}{5}$, we can divide more complicated expressions.

\[
\frac{\frac{1}{x}}{\frac{4}{5}} = \frac{\frac{1}{x} \cdot \frac{5}{4}}{\frac{1}{y}} = \frac{(y+1)y}{x}.
\]

First, we multiply by the reciprocal (inverse).

Next, we multiply.