

## Objective 2

Divide a fraction by a fraction.

### Vocab:

**Reciprocal:** A fraction that is flipped over

Example 1:

#### **PROBLEM**

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

#### **STEP 1**

Rewrite the problem as multiplication by the reciprocal of the divisor.

$$\frac{3}{4} \div \frac{3}{7} = \frac{3}{4} \times \frac{7}{3}$$

#### **STEP 2**

Multiply the fractions and simplify the answer.

$$\begin{aligned} \frac{3}{4} \div \frac{3}{7} &= \frac{\cancel{3}}{4} \times \frac{7}{\cancel{3}} \\ &= \frac{7}{4} \\ &= 1\frac{3}{4} \end{aligned}$$

#### **ANSWER**

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

### Guided Practice:

$$\frac{5}{7} \div \frac{3}{4} =$$

(Simplify the answer if possible.)

$$\frac{3}{5} \div \frac{5}{6} =$$

(Simplify the answer if possible.)

### Independent Practice:

$$\frac{8}{9} \div \frac{2}{3} =$$

(Simplify the answer if possible.)

$$\frac{7}{9} \div \frac{5}{6} =$$

(Simplify the answer if possible.)

### Additional Help:

[https://www.mathsisfun.com/fractions\\_division.html](https://www.mathsisfun.com/fractions_division.html)

[http://www.mathplayground.com/fractions\\_div.html](http://www.mathplayground.com/fractions_div.html)