

Tips for Dividing Fractions

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

Keep ↙
Change ↓
Flip ↘

KEEP
 $\frac{8}{9}$
 Dividend

CHANGE
 $\div \rightarrow \times$

FLIP
 $\frac{2}{3} \Rightarrow \frac{3}{2}$
 Find the reciprocal of the divisor

Examples of Reciprocals (invert a fraction)

$$\frac{20}{30} \Rightarrow \frac{30}{20}$$

$$\frac{4}{3} \Rightarrow \frac{3}{4}$$

$$\frac{10}{3} \Rightarrow \frac{3}{10}$$

$$\frac{100}{2000} \Rightarrow \frac{2000}{100}$$

$$4 = \frac{4}{1} \Rightarrow \frac{1}{4}$$

$$1600 = \frac{1600}{1} \Rightarrow \frac{1}{1600}$$

Tips/ Steps

1. Change mixed numbers or whole numbers to improper fractions.
2. **Keep-Change-Flip**
3. **Simplify before multiplying.**
4. **Multiply.** $\frac{n}{a} \times \frac{n}{a}$
5. Change improper fractions to mixed numbers or whole numbers.
6. **Simplify if needed.**