Dividing Fractions

When you are dividing with fractions, you no longer need to have common denominators in all of the numbers, so many people feel that these problems are easier to solve than adding and subtracting fractions. Follow these steps when dividing:

$$\frac{3}{4} \div \frac{2}{3}$$

Rewrite the problem by changing the division symbol to multiplication and modifying the 2nd fraction $\frac{2}{3}$ by writing its reciprocal or flipping the fraction to $\frac{3}{2}$

So, write down the new problem as:

$$\frac{3}{4} \times \frac{3}{2}$$

Multiply the numerators across the top, so in this problem you compute 3 x 3 = 9

Then multiply the denominators across the bottom, so in this problem you compute 4 x 2 = 8

So, write down the new problem as:

$$\frac{3}{4} \times \frac{3}{2} = \frac{9}{8}$$

To write the answer as a mixed fraction, you divide the denominator 8 into the numerator 9. You get one with a remainder of one to obtain the result of $1\frac{1}{8}$.

Solve the following 10 division problems:

$\frac{1}{3} \div \frac{1}{2}$

$\frac{2}{3} \div \frac{1}{4}$

$\frac{2}{5} \div \frac{5}{6}$

$\frac{3}{8} \div \frac{3}{4}$

$\frac{3}{4} \div \frac{5}{6}$

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

$\frac{7}{10} \div \frac{4}{5}$

$\frac{7}{12} \div \frac{5}{6}$

$\frac{7}{8} \div \frac{5}{6}$

$\frac{2}{3} \div \frac{4}{7}$