

Multiplying Fractions

When you are multiplying two or more 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 multiplying:

$$\frac{3}{4} \times \frac{2}{5}$$

Multiply the numerators across the top, so in this problem you compute $3 \times 2 = 6$

Then multiply the denominators across the bottom, so in this problem you compute $4 \times 5 = 20$

So, write down the new problem as:

$$\frac{3}{4} \times \frac{2}{5} = \frac{6}{20}$$

To write the answer in the lowest terms, you find a divisor that is common to both numerator and the denominator. In this answer $\frac{6}{20}$, the number 2 goes into both 6 and 20. Divide the numerator

and the denominator by 2 to get the result as $\frac{3}{10}$.

Solve the following 10 multiplication problems:

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

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

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

$$\frac{3}{8} \times \frac{1}{4}$$

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

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

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

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

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

$$\frac{2}{3} \times \frac{4}{7} \times \frac{1}{2}$$