Multiplying Fractions

Procedure:

1. **Make sure the fractions are proper or improper.**
2. **Cancel, if possible.**
3. **Multiply numerators.**
4. **Multiply denominators.**
5. **Simplify.**

Example:

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

Rewriting the mixed number, it is now $\frac{8}{3} \times \frac{3}{4}$. There is a common factor of 3 and of 4 in the numerator and denominator so with cancellation, it is now $\frac{2}{1} \times \frac{1}{1}$. Therefore $2\frac{2}{3} \times \frac{3}{4} = 2$.

Multiply the following fractions.

1. $\frac{2}{5} \times \frac{2}{3}$ **2.** $\frac{4}{9} \times \frac{5}{7}$ **3.** $\frac{7}{12} \times \frac{3}{4}$

4. $\frac{4}{9} \times \frac{3}{4}$ **5.** $2\frac{3}{4} \times \frac{4}{11}$ **6.** $\frac{13}{21} \times \frac{3}{7}$

7. $4\frac{1}{6} \times \frac{2}{5}$ **8.** $\frac{3}{8} \times 3\frac{1}{2}$ **9.** $\frac{5}{7} \times 5\frac{3}{5}$

10. $\frac{17}{20} \times \frac{5}{9}$

11. $5\frac{1}{2} \times \frac{3}{4}$

12. $\frac{12}{15} \times \frac{23}{35}$

13. $6\frac{3}{7} \times \frac{4}{5}$

14. $3\frac{3}{5} \times 2\frac{1}{2}$

15. $4\frac{2}{3} \times 2\frac{3}{4}$