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: $2\frac{2}{3} \times \frac{3}{4} = \frac{\cancel{8}^{2}}{\cancel{3}} \times \frac{\cancel{3}}{\cancel{4}}$

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

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