

**Multiplying Rational Expressions**

Simplify each expression.

1.  $\frac{2a}{3b} \cdot \frac{ab}{2c}$

2.  $\frac{2x}{3y} \cdot \frac{xy^2}{2z}$

3.  $\frac{3x}{2ab} \cdot \frac{ab}{3ca}$

4.  $\frac{2b}{3c} \cdot \frac{ca}{2ba^2}$

5.  $\frac{3a}{2bc} \cdot \frac{bc}{3a}$

6.  $\frac{3b}{2c} \cdot \frac{ca}{3a}$

7.  $\frac{3(a+b)}{2c} \cdot \frac{ac}{3(a+b)}$

8.  $\frac{3a(b+c)}{2c-3(b+c)} \cdot \frac{c-3}{c+3(b+c)}$

9.  $\frac{2(p+q)}{r} \cdot \frac{r-3}{2(p-3)}$

10.  $\frac{3(r+q)}{r+3} \cdot \frac{qr}{3q-3}$

11.  $\frac{3(a+b)}{2ac} \cdot \frac{a}{3(a+b)}$

12.  $\frac{3(p+q)(p+q)}{p-3} \cdot \frac{3}{3p-3(p+3)}$

13.  $\frac{3}{a+3b} \cdot \frac{3(a+b)}{a+3}$

14.  $\frac{7a}{2(a^2+3ab)} \cdot \frac{3a+3b}{7a}$