

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. $\frac{2a}{3b} \cdot \frac{ab}{2ba^2}$

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

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

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

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

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

10. $\frac{2(a+b)}{c+d} \cdot \frac{ac}{2(a-b)}$

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

12. $\frac{2(a+b)(a+c)}{a+c} \cdot \frac{1}{c(a+b)(a-b)}$

13. $\frac{1}{a+b} \cdot \frac{2(a+b)}{a+c}$

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