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**Module 15** Simplifying Rational Expressions  
**Lesson 3** Multiplying and Dividing Rational Expressions



guided  
practice

**Set 1**

1. Simplify:  $\frac{48y^5}{21z^3} \cdot \frac{7z^2}{8y^2} \cdot \frac{2y^3}{z}$  \_\_\_\_\_

2. Simplify:  $\frac{a+b}{a^2+2ab+b^2} \cdot \frac{6a+12b}{6} \cdot \frac{a+2b}{a+b}$  \_\_\_\_\_

**Set 2**

1. Simplify:  $\frac{10r^3}{6x^3} \div \frac{25r}{42x^3} \cdot \frac{14r^2}{5x}$  \_\_\_\_\_

2. Simplify:  $\frac{m^2+8m+15}{a+b} \div \frac{m+3}{a+b} \cdot \frac{m+5}{a+b}$  \_\_\_\_\_

