

Name : \_\_\_\_\_ Score : \_\_\_\_\_

Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

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### Multiplying Rational Expressions

Simplify each expression.

$$1) \quad \frac{5d(d-12)}{(d-12)(d-3)} \cdot \frac{d-3}{(d-2)(d-4)}$$

$$6) \quad \frac{z^2 + 13z + 40}{z+5} \cdot \frac{z+8}{10}$$

$$2) \quad \frac{63p^2 + 63p}{70p^2 + 70p} \cdot \frac{2p}{2}$$

$$7) \quad \frac{11(y+5)}{5} \cdot \frac{4y}{11(y+5)}$$

$$3) \quad \frac{10}{12} \cdot \frac{4}{3}$$

$$8) \quad \frac{9}{3} \cdot \frac{8}{7q}$$

$$4) \quad \frac{11(r+12)}{12} \cdot \frac{10r}{11(r+12)}$$

$$9) \quad \frac{12(s-4)}{(s-4)} \cdot \frac{11s}{12(s+3)}$$

$$5) \quad \frac{2}{(x-8)} \cdot \frac{9x-54}{(x-6)}$$

$$10) \quad \frac{7g(g-2)}{(g-2)(g+4)} \cdot \frac{g+4}{(g-11)(g-9)}$$

