

## Multiplying Rational Expressions

per \_\_\_\_\_ Name \_\_\_\_\_

$$1] \frac{x+5}{x-3} \cdot \frac{x-4}{x+5}$$

$$2] \frac{x+3}{4} \cdot \frac{3(x-6)}{3(x+3)}$$

$$3] \frac{x-8}{(x+6)(x-8)} \cdot \frac{4x(x+10)}{x+10}$$

$$4] \frac{x^2-4}{x+5} \cdot \frac{x+5}{x-2}$$

$$5] \frac{x^2+2x-3}{x^2} \cdot \frac{x^3+x^2}{x+3}$$

$$6] \frac{1}{2x^2 + 3x - 2} \cdot \frac{x^2 - 2x - 8}{x - 4}$$

$$7] \frac{x^2 - 4x}{x - 2} \cdot \frac{2 - x}{x}$$

$$8] \frac{x^2 - 16}{9 - x} \cdot \frac{x^2 + x - 90}{x^2 + 14x + 40}$$

$$9] \frac{x + 3}{x - 5} \cdot \frac{1}{x^2 + 6x + 9} \cdot (x^2 - 25)$$

$$10] \frac{2x^2 - 3x - 20}{x^2 - 2x - 24} \cdot \frac{x^2 + 5x - 66}{2x^2 + 27x + 55}$$