

## Rational $\times \div$ — Both operations

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

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



Multiply or divide, then cancel. Write each answer as one fraction.

1  $\frac{(x+4)}{(x-7)} \div \frac{(x-8)}{(x-7)}$

2  $\frac{(x+8)}{(x-6)} \times \frac{(x-6)}{(x-8)}$

3  $\frac{(x-3)}{(x+8)} \div \frac{(x-6)}{(x+8)}$

4  $\frac{(x-8)}{(x+6)} \div \frac{(x+8)}{(x+6)}$

5  $\frac{(x-2)}{(x-1)} \times \frac{(x-1)}{(x+9)}$

6  $\frac{(x-5)}{(x-2)} \times \frac{(x-2)}{(x-9)}$

7  $\frac{(x-4)}{(x+9)} \times \frac{(x+9)}{(x-7)}$

8  $\frac{(x+4)}{(x-3)} \div \frac{(x+8)}{(x-3)}$



## Rational $\times \div \cdot$ Both operations — Answer key



1.  $(x + 4)/(x - 7) \div (x - 8)/(x - 7) = (x + 4) / (x - 8) \ (x \neq 7, 8)$

2.  $(x + 8)/(x - 6) \times (x - 6)/(x - 8) = (x + 8) / (x - 8) \ (x \neq 6, 8)$

3.  $(x - 3)/(x + 8) \div (x - 6)/(x + 8) = (x - 3) / (x - 6) \ (x \neq -8, 6)$

4.  $(x - 8)/(x + 6) \div (x + 8)/(x + 6) = (x - 8) / (x + 8) \ (x \neq -8, -6)$

5.  $(x - 2)/(x - 1) \times (x - 1)/(x + 9) = (x - 2) / (x + 9) \ (x \neq -9, 1)$

6.  $(x - 5)/(x - 2) \times (x - 2)/(x - 9) = (x - 5) / (x - 9) \ (x \neq 2, 9)$

7.  $(x - 4)/(x + 9) \times (x + 9)/(x - 7) = (x - 4) / (x - 7) \ (x \neq -9, 7)$

8.  $(x + 4)/(x - 3) \div (x + 8)/(x - 3) = (x + 4) / (x + 8) \ (x \neq -8, 3)$