## REMEMBER

$$\frac{4}{7} \times \frac{14}{3} = \frac{56}{21} = \frac{8}{3}$$
or
$$\frac{4}{7} \times \frac{14}{3} = \frac{56}{21} = \frac{8}{3}$$

$$\frac{9y}{4x}, \frac{7y}{x} = \frac{63y^2}{4x^6}$$

$$\frac{3}{\chi^{3}} \div \frac{5}{\chi^{5}} = \frac{3}{\chi^{3}} \times \frac{\chi^{5}}{5} = \frac{3\chi^{5}}{5\chi^{3}} = \frac{3}{5}\chi^{2}$$

Multiply Rational Expressions

$$\frac{29}{9} \cdot \frac{36^2}{5a^2}$$

non-jerm. a + 0

$$\frac{2}{3}$$
  $\frac{30}{5}$ 

ONLY positive exponents

2. 
$$\frac{2}{3x^{2}(x+2)} = \frac{5(x-4)}{3x^{0} \cdot 5(x-4)} = \frac{5(x-4)}{3x^{0} \cdot 4x^{0}} = \frac{5(x-4)}{12}$$
FACTORED FORM

Divide Rational Expressions

3. 
$$\frac{7n^3}{4} = \frac{(7n)^2}{(-12)}$$
 $= \frac{7n^3}{(7n)^2} \times \frac{(7n)^2}{(7n)^2}$ 
 $= \frac{7n^3}{(7n)^2} \times \frac{(7n)^2}{(7n)^2}$ 
 $= \frac{7n^3}{(7n)^2} \times \frac{(7n)^2}{(7n)^2}$ 

$$= \frac{-3\eta}{7}$$

4. 
$$5(x-3)$$
:  $10(x-3)$ 
 $3x(x+5)$ 

$$-5(x+5)$$

$$3x(x+5)$$

$$-(5x)(x+5)$$

$$= \frac{-5(x+5)}{2x} \times \frac{3x(x+5)}{3(x+5)} = \frac{-5(x+5)}{20x}$$

$$= \frac{3(x+5)}{4}$$
5.  $\frac{x^2 + 9x + 20^{\frac{1}{10}}}{2x^2 + 6x - 8 \frac{60^{\frac{1}{10}}}{6x^5}} \times \frac{x^2 - 1 \frac{60^{\frac{1}{10}}}{3x + 15 \frac{60^{\frac{1}{10}}}{6x^5}}}{\frac{3x + 15}{6x^5} \frac{60^{\frac{1}{10}}}{6x^5}} = \frac{x + 1}{6x^5}$ 

$$= \frac{x + 1}{6x^5} \times \frac{3x^2 - 12x - 63}{3(x^2 - 4x - 21)} = \frac{x + 1}{3(x+3)}$$

$$= \frac{x + 1}{3(x+3)} \times \frac{3x^2 - 12x - 63}{3(x^2 - 4x - 21)} = \frac{x + 1}{3(x+3)}$$

$$= \frac{x + 3}{3(x+2)} \times \frac{3(x+3)}{3(x+2)} \times \frac{3x^2 - 12x - 63}{3(x+2)} \times \frac{60^{\frac{1}{10}}}{3(x+2)} \times \frac{7 + 1}{3(x+2)}$$

$$= \frac{(x+3)}{3(x+2)} \times \frac{3x(x+3)}{3(x+2)} \times \frac{3x(x+3)}{3(x+2)} \times \frac{7 + 1}{3(x+2)}$$

P = 536 + 4-8 (min 3 each) | ||a|| ||a|| ||a||

X+3+0 X+-3