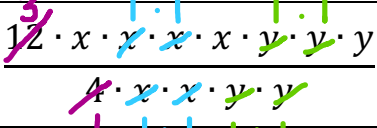


Dividing Monomials Exploration Continued

Complete the table below. Expand each expression into factored form. Find all forms of one (FOO's) and then write the new simplified form as shown in the example. **All exponents must be positive and coefficients should be whole numbers.** Some of your simplified forms may still be in fractional form!

Original Form	Factored Form	Simplified Exponent Form
$\frac{12x^4y^3}{4x^2y^2}$	 <p style="text-align: center;"> $\frac{\overset{3}{\cancel{12}} \cdot x \cdot x \cdot x \cdot x \cdot \overset{2}{\cancel{y}} \cdot \overset{1}{\cancel{y}} \cdot y}{\underset{1}{\cancel{4}} \cdot x \cdot x \cdot \underset{1}{\cancel{y}} \cdot \underset{1}{\cancel{y}}}$ </p>	$3x^2y$
$\frac{25x^7}{5^3}$		
$\frac{7x^3y^2}{7x^5y}$		
$\frac{7x^3y^3}{3x^4y} \cdot 6x^2$		
$\frac{12x^2y^4z^2}{9x^3y^2z}$		

Do you notice any patterns?