Dividing Polynomials – extension

- Organize the division as a fraction of not given as such.
- Organize the numerator and the denominator in such a way that the same variables are written underneath each other. You can also write it as several fractions.
- Reduce the coefficients if possible.
- Apply the laws of exponents.
- If the numerator was a monomial write as a single fraction with positive exponents only.

Examples: Divide the given polynomials

L1	$\frac{5x^2yz}{15xy^2z^4} =$
L2	$\frac{24ab^3c^4}{8a^2bc^3} =$
L3	$\frac{5x^2y + 15xy^3 + 25x}{5xy} =$
L4	$\frac{2x^2y^3 + 4xy - 6y^2 + 10x}{2x^2y} =$

M9

Practice

Examples: Divide the given polynomials

1.
$$\frac{14x^2y+7xy^2+21xy}{7x^2y}$$

2. $(9a^2bc^4 + 6abc + 3a^2b^2c - 12ab^2) \div (3ab^2c^3)$