- 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 | $\frac{5 x^{2} y z}{15 x y^{2} z^{4}}=$ |
| :--- | :--- |
| L2 | $\frac{24 a b^{3} c^{4}}{8 a^{2} b c^{3}}=$ |
| L3 | $\frac{5 x^{2} y+15 x y^{3}+25 x}{5 x y}=$ |
| L4 | $\frac{2 x^{2} y^{3}+4 x y-6 y^{2}+10 x}{2 x^{2} y}=$ |

## Practice

Examples: Divide the given polynomials

1. $\frac{14 x^{2} y+7 x y^{2}+21 x y}{7 x^{2} y}$
2. $\left(9 a^{2} b c^{4}+6 a b c+3 a^{2} b^{2} c-12 a b^{2}\right) \div\left(3 a b^{2} c^{3}\right)$
