## Factoring a Monomial from a Polynomial

To factor an expression means to write the expression as a product of its factors.
To factor a monomial from a polynomial, we use the following steps:

- Write each term as a product of its prime factors.
- Determine the greatest common factor (GCF) by underlining the common factors of each term in the polynomial.
- Then use the distributive property to factor out the GCF.

Example: Factor $6 y^{2}+9 y^{5}$

$$
\begin{aligned}
& -2 * 3 * y * y+3 * 3 * y * y * y * y * y, \text { GCF is } 3 y^{2} \\
& =3 y^{2}\left(2+3 y^{3}\right)
\end{aligned}
$$

