

Factoring by Grouping

You can use the Distributive Property to **factor by grouping** if two groups of terms have the same factor.

Steps for Success!

- 1 Draw a line between half
- 2 Apply GCF to factor each exp.
- 3 Rewrite as (common)(leftover)
- 4 Multiply to check

Factor: $4n^3 + 8n^2 - 5n - 10$

$$4n^2(n+2) - 5(n+2)$$

$$(4n^2 - 5)(n+2)$$