

Common Factoring

Part A - Common Factoring

Steps when common factoring:

1. Identify the GCF.
2. Write the GCF outside a set of brackets.
3. Inside the brackets, write the result of dividing each previous term by the GCF.

Ex. 1 Common factor each expression, if possible.

a) $12x^2 + 18$

b) $14x^2 + 21y$

c) $7x^2 + 9x$

d) $21x^3 + 28x$

e) $11x^2 + 17y$

Part B - Factoring by Grouping

Steps:

1. Group terms with common factors beside each other.
2. Common factor within the grouped terms.

Ex. 1 Factor, if possible.

a) $wx + wy + xz + yz$

b) $a^2x + bx - a^2z - bz$

c) $x^4 - 2x^3 + 3x - 6$

Opportunity to Learn

Use these IXL pages to master each of the concepts we discussed above. Earn a “Smart Score” of 80% or better. To follow links, go to Edsby and view this page as PDF file.

P.2 Factor out a monomial

P.7 Factor by grouping