

NAME \_\_\_\_\_

**Module 12** Simplifying Algebraic Expressions  
by Factoring Polynomials  
**Lesson 1** Factoring by Removing the Greatest  
Common Factor



guided  
practice

**Set 1**

Factor, if possible.

1.  $8c + 12$

$4(2c + 3)$

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2.  $6z^2 - 8z + 12$

$2(3z^2 - 4z + 6)$

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3.  $20x^2 - 12x + 15$

No common monomial factor

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**Set 2**

Factor, if possible.

1.  $2x^2y^2 - 4xy^4 + 10x^4y^3$

$2xy^2(x - 2y^2 + 5x^3y)$

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2.  $12a^3b^2 + 12ab^2$

$12ab^2(a^2 + 1)$

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3.  $s^4t^4 - 3s^3t^3 + 6s^2t^2$

$s^2t^2(s^2t^2 - 3st + 6)$

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