

Name: _____

Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet
Factoring Polynomials with Common Monomial Factors

A. Choose the letter of the correct answer.

1. What is the process of rewriting a polynomial as a product of polynomials of lesser degree?
 - a. Eliminating
 - b. Factoring
 - c. Multiplying
 - d. Simplifying
2. Which of the following are the factors of $x^2 - y^2$?
 - a. x^2 and y^2
 - b. $(x + y)$ and $(x + y)$
 - c. $(x + y)$ and $(x - y)$
 - d. $(x - y)$ and $(x - y)$

B. Answer the questions below.

1. Describe what happens if you use factor $2a$ rather than the GCF $4a^2$ from $12a^2 - 16a^2$.
2. The binomial $9x^2 + 36$ is a sum of two squares that can be factored. How will you factor this binomial? When can the sum of two squares be factored?

C. Factor each polynomials.

Find the GCF of each pair of monomials.

1. $12a$ and $36ab$

2. $6a$ and $20a^2b$

Factor completely.

3. $5x + 10$

4. $25x^2y^2 - 55xy^3$

Factor each polynomials

5. $5a(a + 3) - c(a + 3)$

6. $6(3b - 1) + 5a(1 - 3b) + 4c(3b - 1)$