

Name _____ Period _____

Factoring Using the Greatest Common Factor(GCF):

1. Write the prime factorization of the numbers.
2. Circle the factors that are common in each number.
3. Multiply the common factors together to get the GCF.

1. Find the GCF of 15 and 27

2. Find the GCF of 24 and 30

3. Find the GCF of 27 and 36

4. Find the GCF of 24 and 60

Finding the GCF of monomials

5. Find the GCF of x^4 and $3x^3$

6. Find the GCF of $4x^7$ and $16x^4$

7. Find the GCF of $7x^3y$ and $28xy^4$

8. Find the GCF of $8x^4y^2z$ and $16xy^5z^4$

Finding the GCF of 3 terms

9. Find the GCF of 63, 84, and 126

10. Find the GCF of $12x^3$, $14x^6$, and $18x^2$

11. Find the GCF of $17x^5$, x^{21} , and $4x^9$

12. Find the GCF of $18x^6y^3$, $9x^{10}y^2$, and $3x^6y^4$