

(Fill in the words for the acronym)

G _____ C _____ F _____ WS Initials: _____

#1-5, Find the GCF of each set of numbers:

1. 30, 50 2. 30, 75 3. 6, 72 4. 21, 77, 63 5. 24, 60, 48

#6-10, Find the GCF for each set of monomials.

6. $4a^3, 9a^2$ 7. $6w^2, 15w^2$ 8. $4xy^4, 8xy$ 9. $4z^2, 2z^6, 10z$ 10. $12x^2, 18y^2, 24z^2$

#11-22, Factor each polynomial. First step of Factoring – GCF!

11. $6b^2 - 15b^3$ 12. $8x^2 + 18y^2$ 13. $z^3 + 4z^2$
14. $10v^4 + 5v^3$ 15. $18f^5 + 12f^2 + 9f$ 16. $11t^{10} + 17t^7$
17. $8q^2 + 10q - 6$ 18. $16x^3 - 4x$ 19. $k^4 + 2k^3 + 3k^2 + 4k$
20. $x^2y + 2y$ 21. $33q^3r + 33q^2r^2 + 33qr^3$ 22. $a^3b^2 + a^3b^4 + ab^4$

#23-25, Review: Perform the indicated operation.

23. $(4x^2 - 3x + 5) + (7x^2 - 5x - 7)$ 24. $(3x - 1)(7x + 2)$ 25. $(4x + 5)^2$