

Name: _____

Unit 6: Exponent Rules

Date: _____ Bell: _____

Homework 1: Adding, Subtracting,
& Multiplying Monomials

| Directions: Simplify the following monomials. | | |
|---|--|---|
| 1. $-3a + 52a$ $49a$ | 2. $-12x^2y - 3x^2y$ $-15x^2y$ | 3. $16ab^2 - 43ab^2$ $-27ab^2$ |
| 4. $-15m - (-15m)$ 0 | 5. $11c^2d^2 - 20c^2d^2$ $-9c^2d^2$ | 6. $4ab + 13bc$ $4ab + 13bc$ |
| 7. $-5a^2b^2 - a^2b^2$ $-6a^2b^2$ | 8. $8x^2 - x^2 - 12x^2 + 2x^2$ $-3x^2$ | 9. $16x^2y - 4x^2y - 5x^2y + 10x^2y$ $11x^2y + 6xy^2$ |
| 10. Subtract $-2x$ from $-8x$. $-8x - (-2x)$ $= -6x$ | 11. From $13xy^2$, subtract $21xy^2$. $13xy^2 - 21xy^2$ $= -8xy^2$ | 12. Subtract $17a^2b$ from $2a^2b$. $2a^2b - 17a^2b$ $= -15a^2b$ |

| Directions: Use the product rule to simplify the following monomials. | | |
|---|--|---|
| 13. $b^4 \cdot b^6$ b^{10} | 14. $(x^3y^2)(x^8y^{10})$ $x^{11}y^{12}$ | 15. $3a^4 \cdot 5a^3$ $15a^7$ |
| 16. $5a(-3b)(-2a^2b^3)$ $30a^3b^4$ | 17. $11(4cd)(-cd^2)$ $-44c^2d^3$ | 18. $(-x^2)(4x^2y)$ $-4x^4y$ |
| 19. $(-15x^2) \cdot \left(-\frac{1}{3}x^5\right)$ $5x^7$ | 20. $(5a^2bc^3) \cdot \left(\frac{1}{5}abc^4\right)$ $a^3b^2c^7$ | 21. $\frac{1}{3}(2a^3b)(6b^4)$ $4a^3b^5$ |
| 22. $(7a)(3ab) - 4a^2b$ $21a^2b - 4a^2b$ $= \boxed{17a^2b}$ | 23. $(2y^2)(4xy^3) + (3xy^4)(5y)$ $8xy^5 + 15xy^5$ $= \boxed{23xy^5}$ | |
| 24. $(2xy)(-4x^2) + (6x)(6x^2y)$ $-8x^3y + 36x^3y$ $= \boxed{28x^3y}$ | 25. $(2ab^2)(4a^2b^3) - (10a^2b)(6b^4)$ $8a^3b^5 - 60a^2b^5$ $= \boxed{-52a^3b^5}$ | |

Exponents Patterning Algebra Unit Lesson Key

M Walker



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Enjoying the Track of Appearance: An Mental Symphony within **Exponents Patterning Algebra Unit Lesson Key**

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