

Math Plus Honors U5D1 Homework KEY

<b>Directions:</b> Simplify the following monomials.		
1. $-3a + 52a$ $49a$	2. $-12x^2y - 3x^2y$ $-15x^2y$	3. $16ab^3 - 43ab^3$ $-27ab^3$
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. $16x^2y - 4xy^2 - 5x^2y + 10xy^2$ $11x^2y + 6xy^2$
10. Subtract $-2x$ from $-8x$ $-8x - (-2x) = \boxed{-6x}$	11. From $13xy^2$ , subtract $21xy^2$ $13xy^2 - 21xy^2 = \boxed{-8xy^2}$	12. Subtract $17a^2b$ from $2a^2b$ $2a^2b - 17a^2b = \boxed{-15a^2b}$

<b>Directions:</b> Use the product rule to simplify the following monomials.		
13. $b^6 \cdot b^4$ $b^{10}$	14. $(x^3y^5)(x^8y^{10})$ $x^{11}y^{15}$	15. $3a^4 \cdot 5a^3$ $15a^7$
16. $5a(-3b)(-2a^2b^3)$ $30a^3b^4$	17. $11(4cd)(-cd^5)$ $-44c^2d^6$	18. $(-xy^3)(4x^2y)$ $-4x^3y^4$
19. $(-15xy^4) \cdot \left(-\frac{1}{3}xy^3\right)$ $5x^2y^7$	20. $(5a^2bc^3) \cdot \left(\frac{1}{5}abc^4\right)$ $a^3b^2c^7$	21. $\frac{1}{3}(2a^3b)(6b^3)$ $4a^3b^4$