

Name: \_\_\_\_\_

Unit 6:

Date: \_\_\_\_\_ Bell: \_\_\_\_\_

Homework Powers of Monomials



**Directions:** Simplify the following monomials.

1. $(x^4)^2$	2. $(k^5)^9$	3. $(m^2n^7)^3$
3. $(2w^3)^6$	4. $(3y^3)^4$	6. $(-4x^2)^2$
7. $(-5y^3)^3$	8. $(-a^9b)^4$	9. $\left(\frac{1}{2}x^4\right)^7$
10. $2(3a^2)^3$	11. $\frac{1}{2}(4k^5)^2$	12. $-6\left(\frac{2}{3}p^8\right)^3$
13. $(m^5n^3)^7 \cdot m^2n$	14. $(2xy)^2(-3x^2)(4y^2)$	15. $(2x^3y^2z^2)^3(x^2z)^4$
16. $(-xy)^2 \cdot (2x^9y^5)^4$	17. $(-4mn)^3 \cdot (-2m^2)^3$	18. $-3(2x^4)(4x^5y)^2$
19. $(-18m^2n)^2 \left(-\frac{1}{6}mn^2\right)$	20. $(-3r^3s^5)^2$	21. $(-2x^5y^7)^3$