Principles of Algebra   Name/Date_____

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 2D.1 – Multiplying & Dividing Algebraic Expressions

#1-14, Simplify each expression.			
1. $2x + 3x$	2. $2x \cdot 3x$	3. $n + n + n + n + n$	4. $n \cdot n \cdot n \cdot n \cdot n$
5. $4(5z + 2)$	6. $4z(5z + 2)$	7. $1 - 8(r - 3)$	8. $1 - 8r(r - 3)$

9. $8h^2 - 10h(2 - h) + 5h$	10. $4a \cdot 3a + 5a \cdot 2a - 3a \cdot 6a$	11. $3y(2y - 9) + y(10 + y)$
12. $\dfrac{12x + 20y - 8z}{4}$	13. $\dfrac{2x(3x + 7) - 3x(4 - 2x)}{2}$	14. $\dfrac{15w^2 - 30w - 9w(1 - 2w)}{-3}$

15. The formula for the volume of a rectangular prism is $V = lwh$, where l, w, and h are the length, width, and height of the prism, respectively. Find the volume of the rectangular prism shown. Be sure to use correct units in your answer.

$l = 10$ cm

$h = 8$ cm

$w = 5$ cm