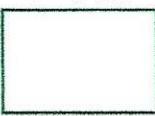
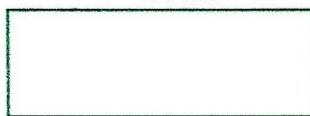
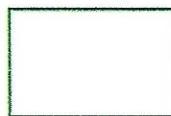
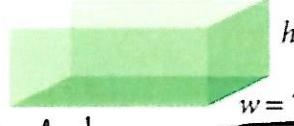
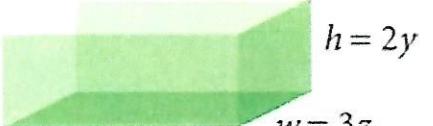


ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 11.2 – More Multiplying & Dividing Algebraic ExpressionsThe formula for the area of a rectangle is $A = lw$. Find the area for each rectangle.

1. $l = 6 \text{ cm}$  $A = lw$ $A = (6\text{cm})(4\text{cm})$ $A = 24\text{cm}^2$	2. $l = 10 \text{ in.}$  $A = lw$ $A = (10\text{in})(3.5\text{in})$ $A = 35\text{in}^2$	3. $l = 3x$  $A = lw$ $A = (3x)(2x)$ $A = 6x^2$
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The formula for the volume of a rectangular prism is $V = lwh$. Find the volume for each rectangular prism.

4. $l = 8 \text{ in.}$  $V = lwh$ $V = (8\text{in})(4\text{in})(3\text{in})$ $V = 96\text{in}^3$	5. $l = 20 \text{ cm}$  $V = lwh$ $V = (20\text{cm})(7\text{cm})(8\text{cm})$ $V = 1120\text{cm}^3$	6. $l = 3x$  $V = lwh$ $V = (3x)(3z)(2y)$ $V = 18xyz$
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7. Simplify each expression below. Circle the expressions that are equivalent.

5(3x - 7) <u>$15x - 35$</u>	5 · (3x - 7) <u>$15x - 35$</u>	5(-7 + 3x) <u>$-35 + 15x$</u>	$-5(3x + 7)$ <u>$-15x - 35$</u>
COMMUTATIVE PROPERTY SAYS $15x - 35 = -35 + 15x$			

8. Simplify each expression below. Circle the expressions that are equivalent.

$\frac{6-12x}{6}$ $\frac{6}{6} - \frac{12x}{6}$ <u>$1-2x$</u>	$6 - 12x \div 6$ $6 - \frac{12x}{6}$ <u>$6-2x$</u>	$(6-12x) \div 6$ $\frac{6-12x}{6}$ $\frac{6}{6} - \frac{12x}{6} = \underline{\underline{1-2x}}$	$\frac{1}{6}(6-12x)$ <u>$1-2x$</u>
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