Order of Operations With Variables, Powers and Exponent Laws Powers and Exponent Laws

Name: _____

Date: _____

Learning Goal 2.3	I can evaluate an expression using order of operations with
	powers and applying exponent laws.

Variable Something that can Change. - in math, it's represented by a letter, usually ~ - all the exponent laws still apply, but you can't evaluate.

Example Simplify the following expressions. Show all your work.



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e.
$$\left(\frac{3}{4a}\right)^{3}$$
 f. $(3xy)^{4}$ g. $(m^{2}n^{5})^{3}$ h. $(-2ab)(-4m^{3}n^{2})$
= 3^{3} $(= 3^{4}z^{1\times4}y^{1\times4})$ $= m^{2}n^{3} = 8abm^{3}n^{2}$
= 3^{3} $(= 3^{4}z^{1\times4}y^{1\times4})$ $= m^{6}n^{15}$
= $3^{4}z^{4}y^{4}$ $= m^{6}n^{15}$
= $81z^{4}y^{4}$
= 27
 $64a^{3}$ for
colc test

Chapter 2

Order of Operations With Variables, Powers and Exponent Laws



Simplify vs Evaluate Expressions (no = sign) Simplify: to write an expression with only one copy of each variable and no negative exponents Evaluate: find what the expression is equal to Assignment (no variables Handout Quiz: Next Day! yet!)