Name:	Date:	
Notes		III
Algebra Section 1.1 Pages 2-7		In the second se
rages 2-7		
<b>Goal:</b> "I will evaluate an expression give "I will write an expression to rep		oonents"
Vocabulary:		
Variable:		
Expression:		
What is the difference between an algeb	raic expression and an algebraic e	quation?
Power:		
<u>Expressions</u>		
Examples of expressions:		
Evaluating expressions:		
<ol> <li>Input the values</li> <li>Simplify using Order of Operation</li> </ol>	15	
Example: Evaluate	3 <i>x</i> +5 for <i>x</i> =10	
1) Input the values	$3 \cdot 10 + 5$	
2) Simplify using Order of Operations	30+5 35	
<u>Try These:</u>	22	
Evaluate the expressions below when <i>n</i> =	=5	
(a) 13 <i>n</i>	(b) $\frac{9}{n}$	(c) $n-1$
Evaluate the expressions below when $y = 2$	2.	
(a) 6y-3	(b) $y + 4$	(c) $11 - 2y$
Evaluate the expressions below when $c = 4$	ŀ.	

(a) 4c+1 (b)  $\frac{8}{c}$  (c) (15+c)-3

Writing an expression: <u>Example:</u> Sally is going to the movies tickets for each person cost What is varying or unknown	ing \$12 each. '	Write an expression	to show the t	
Expression:				
What does the variable star	nd for?			
<u>Try These</u> : The oven repairman charge Write an expression to show			n hour for th	e service.
What is varying or unknow	n?			
Expression:				
What does the variable star	nd for?			
<u>Exponents</u>				
In the expression 2 <sup>5</sup> , what r	number is the b	base?		
Note: 4 <sup>0</sup> =1 (Anything to the	e 0 power=1)			
$\begin{array}{ccc} \underline{Example:} & 4^3 \\ \underline{Expand} & 4 \cdot 4 \cdot 4 \\ \underline{Simplify} & 16 \cdot 4 \\ 64 \end{array}$				
<u>Try These:</u>				
(a) 5 <sup>3</sup> Expand	(b) Expand	$\left(\frac{1}{3}\right)^4$	(c) Expand	1.4 <sup>2</sup>
Simplify	Simplify		Simplify	
(a) $x^3, x = 8$	(b) $k^2$ ,	<i>k</i> = 2.5	(c)	$d^4$ , $d = \frac{1}{3}$

Here are some trickier ones:

	(a) $-3^2$	(b) $x^2$ , when $x = -2$	(c) $-x^2$ when $x = 4$
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