Name_____ Date_____

Number
Unit 2 Line Master 1a

Integer Bases and Zero Exponents

1. What about 0?
   Choose a number to use as the base. Complete the table.

Power	Standard Form
$\_\_\_\_\_^{4}$	
$\_\_\_\_\_^{3}$	
$\_\_\_\_\_^{2}$	
$\_\_\_\_\_^{1}$	
$\_\_\_\_\_^{0}$	

2. Negative or Not?
   Complete the table.

Power	Base	Exponent	Expanded Form	Standard Form
2^3	2	3		
$(-2)^3$				
$-(2^3)$				
-2^3				
$-(-2)^3$				

3. Use the values of these powers to sort them in the table below.

$-(1^{10})$ $\quad 1^{10}$ $\quad -1^2$ $\quad (-1)^3$ $\quad -(-1^6)$ $\quad -(1^9)$ $\quad (-1)^{100}$

Positive	Negative

Name_____ Date_____

Number
Unit 2 Line Master 1b

Integer Bases and Zero Exponents

4. Calculate:
   a) the side length of a square with an area of 196 cm².
   b) the edge length of a cube with a volume of 64 cm³.

Extension

5. What is the ones digit of the value of 3^{1992}? How can you find out?
   Hint: Use what you know to figure out what you don't know.