Date

Number Unit 3 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.

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

Positive	Negative	

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Number Unit 3 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 3¹⁹⁹²? How can you find out? **Hint:** Use what you know to figure out what you don't know.