Name_____ Class_____ Date_____

Lesson 1-2B: Homework Practice
Expressions with Integer Bases and Positive Exponents

Fill out the chart below

Exponential Form	Expanded Form	Standard Form
1.) 3^4		
2.) $(-4)^3$		
3.) -3^6		
4.) -5^4		
5.) -10^5		
6.) $(-2)^6$		
7.) -2^6		

Answer the following questions:

8.) Look for patterns in your answers to questions 1-7 and from your notes

    a.)   *For what values of n is $(-2)^n$ positive?*

    b.)   *For what values of n is $(-2)^n$ negative?*

9.) Dylan said the solution of $x^2 = 16$. Felipe stated that there is another solution. Is Felipe correct? If so, find the other solution.

10.) Without calculating, predict whether each product is less than 0 or greater than 0. Simplify using words

a.) $(-4)^3 \cdot (-2)^2$	b.) $(-3)^5 \cdot (-6)^3$	c.) $-2^8 \cdot (-5)^8$