Name _____ Period_____ Date_____

Created by Corbin/Lyons

Pre-Algebra: Exponents #1

| | EXPAND | VALUE OF POWER |

1. Fill in the blanks by expanding and then writing the answer

$3^4 = $ _____ $ = $ _____

Complete the following sentence to explain pattern:

$3^3 = $ _____ $ = $ _____

As the exponent decreases by one, the value of the power is…

_____

$3^2 = $ _____ $ = $ _____

_____

$3^1 = $ _____ $ = $ _____

As the exponent becomes negative, the base number is…

$3^0 = $ _____ $ = $ _____

$3^{-1} = $ _____ $ = $ _____

_____

Does a negative exponent ever yield a negative answer? YES   NO

$3^{-2} = $ _____ $ = $ _____

Why does 3^0 equal one?

$3^{-3} = $ _____ $ = $ _____

_____

$3^{-4} = $ _____ $ = $ _____