

Name _____ Period _____ Date _____

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Pre-Algebra: Exponents #1

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

Complete the following sentence to explain pattern:

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

As the exponent becomes negative, the base number is...

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

Why does 3^0 equal one?

EXPAND

VALUE OF POWER

$3^4 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$3^3 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$3^2 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$3^1 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$3^0 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$3^{-1} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$3^{-2} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

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