Evaluating Exponents

Evaluate each exponent. Show your work.

$6^2 =$ __36__	$4^3 =$ __64__
$2^4 =$ __16__	$7^3 =$ __343__
$3^5 =$ __243__	$5^4 =$ __625__
$\left(\frac{1}{3}\right)^3 =$ __$\frac{1}{27}$__	$\left(\frac{2}{5}\right)^2 =$ __$\frac{4}{25}$__
$0.9^2 =$ __0.81__	$0.6^3 =$ __0.216__

Challenge: How do you find 3^0? Let's try it. First, fill in the blanks to evaluate the exponents.

3^0	3^1	3^2	3^3	3^4
?	__3__	__9__	__27__	__81__

Answers may vary.

Now, look at your answers. What pattern do you see when moving from right to left?

You can divide each answer by 3 to get the answer to its left.

How can you use this pattern to find 3^0? _____ **3 ÷ 3** _____

So, what is 3^0? __1__