Zero and Negative exponents:

Recall from our previous lesson:
One and zero exponents
Look for a pattern in the following:

$2x2x2x2x2 = 2^5$

$2x2x2x2 = 2^4$

$2x2x2 = 2^3$

$2x2 = 2^2$

$2 = 2^1$

$1 = 2^0$

$=$

$=$

$=$

$=$

$=$

What does a negative exponent do?

Example 1: Evaluate

1) 2^{-2}

2) $\left(\frac{4}{5}\right)^{-2}$

3) $\frac{2}{3^0}$