

Laws of Exponents Review

Complete the following table (some have been completed for you)

Exponential form	Expanded Form	Simplified Form (Single base)	Numerical Value
2^8	$2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$		256
3^4			
	$5 \times 5 \times 5$		
$4^2 \times 4^3$	$(4 \times 4) \times (4 \times 4 \times 4)$	4^5	1024
$3^4 \times 3^2$			
$6^2 \times 6^1 \times 6^3$			
$4^3 \div 4^2 = \frac{4^3}{4^2}$	$\frac{4 \times 4 \times 4}{4 \times 4}$	4^1	4
$\frac{3^5}{3^2}$			
	$\frac{5 \times 5 \times 5 \times 5 \times 5}{5 \times 5}$		
$(3^3)^2$	$(3 \times 3 \times 3)^2 = (3 \times 3 \times 3) \times (3 \times 3 \times 3)$	3^6	729
$(2^2)^3$			
$(4^3)^3$			
$(2 \times 3)^3$	$(2 \times 3) \times (2 \times 3) \times (2 \times 3) = 2 \times 2 \times 2 \times 3 \times 3 \times 3$	$2^3 \times 3^3$	$8 \times 27 = 216$
$(4 \times 2 \times 3)^2$			
$\left(\frac{4}{3}\right)^2$	$\left(\frac{4}{3}\right) \times \left(\frac{4}{3}\right)$	$\left(\frac{4 \times 4}{3 \times 3}\right) = \frac{4^2}{3^2}$	$\frac{16}{9}$
$\left(\frac{2}{5}\right)^3$			