

Exponent Laws #1

Name: _____

Date: _____ Block: _____

Fill in the table below. If your exponent is negative in the third column, put it as a fraction, under a 1. Example: $5^{-3} = \frac{1}{5^3} = \frac{1}{125}$

$4^2 \times 4^3$	4^{2+3}	4^5	1024
$3^3 \times 3^3$			
$6^7 \times 6^2$			
$(-5)^2 \times (-5)^4$			
$(-16)^{10} \times (-16)^5$			
$m^3 \times m^7$			
$7^{-2} \times 7^6$			
$9^{-5} \times 9^{-3}$			
$(-4)^6 \times (-4)^{-6}$			
$(-3)^8 \div (-3)^3$	$(-3)^{8-3}$	$(-3)^5$	-243
$4^{12} \div 4^8$			
$p^9 \div p^6$			
$(2n)^7 \div (2n)^5$			
$(-7)^2 \div (-7)$			
$k^{-4} \div k^3$			
$(-3)^5 \div (-3)^5$			
$4^{-2} \div 4^3$			
$x^4 \div x^2$			
$8 \div 8^4$			

Exponent Laws #2

Name: _____

Date: _____ Block: _____

Fill in the table below. If your exponent is negative in the third column, put it as a fraction, under a 1. Example: $5^{-3} = \frac{1}{5^3} = \frac{1}{125}$

$(5^3)^2$	$5^{3 \times 2}$	5^6	15,625
$(6^2)^2$			
$(m^6)^4$			
$((-2)^7)^5$			
$((-16)^{10})^4$			
$(3^6)^4$			
$(5^{-5})^{-2}$			
$(k^{-9})^4$			
$(5^3)^2$			
$\left(\frac{4}{3}\right)^5$	$\left(\frac{4^5}{3^5}\right)$	$\frac{1024}{243}$	none
$\left(\frac{5}{2}\right)^3$			
$\left(\frac{-1}{3}\right)^4$			
$\left(\frac{2^3}{5^2}\right)^5$	$\left(\frac{2^{3 \times 5}}{5^{2 \times 5}}\right)$	$\left(\frac{2^{15}}{5^{10}}\right)$	$\frac{32768}{976625}$
$\left(\frac{4^2}{7^3}\right)^2$			
$\left(\frac{3^4}{4^2}\right)^{-3}$			