

Name: _____

Date: _____

BLM 3.3.4

Student Success: Exponent Law for Division of Powers

Complete the table below. Make up your own questions for the blank rows.

Product	Expanded Form	Single Power
$x^7 \div x^3$	$= \frac{x \times x \times x \times x \times x \times x \times x}{x \times x \times x}$	$= x^4$
$y^5 \div y^2$	$= \frac{y \times y \times y \times y \times y}{y \times y}$	$= y^3$
$m^6 \div m^2$	$=$	$=$
$a^4 \div a^3$	$=$	$=$
$t^6 \div t$	$=$	$=$
$w^7 \div w^2$	$=$	$=$
$h^8 \div h^4$	$=$	$=$
$p^8 \div p^5$	$=$	$=$
	$=$	$=$
	$=$	$=$
$x^a \div x^b$	$=$	
$c^7 d^3 \div c^4 d^2$	$= \frac{c \times c \times c \times c \times c \times c \times c \times d \times d \times d}{c \times c \times c \times c \times d \times d}$	$= c^3 d$
$k^8 j^4 \div k^5 j^2$	$=$	$=$
$p^4 q^6 \div p^2 q^3$	$=$	$=$
$v^5 z^8 \div v^3 z^4$	$=$	$=$
$g^6 t^5 \div g^4 t^3$	$=$	$=$
	$=$	$=$
	$=$	$=$
$a^4 b^7 c^6 \div a^3 b^4 c^4$	$=$	$=$

Complete this statement: When dividing powers with the same base