BLM 3.3.3

Student Success: Exponent Law for Multiplication of Powers

Complete the table below. M	lake up your own questions	for the blank rows.
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Product	Expanded Form	Single Power
$x^4 \times x^3$	$= (x \times x \times x \times x) \times (x \times x \times x)$	$=x^7$
$y^5 \times y^6$	$= (y \times y \times y \times y \times y) \times (y \times y \times y \times y \times y \times y)$	$= y^{11}$
$m^3 \times m^2$	=	=
$a^4 \times a^5$	=	=
$t^6 \times t$	=	=
$w^7 \times w^2$	=	=
$h^2 \times h^4$	=	=
$p^8 \times p^5$	=	=
	=	=
	=	=
$x^a \times x^b$	=	=
$c^2d^3 \times c^4d^5$	$= (c \times c \times d \times d \times d) \times (c \times c \times c \times c \times d \times d \times d \times d \times d)$	$=c^{6}d^{8}$
$k^3 j^4 \times k^5 j^2$	=	=
$p^4q^2 \times p^2q^3$	=	=
$v^5 z^3 \times v^3 z^4$	=	=
$g^2t^5 \times g^4t^3$	=	=
	=	=
	=	=
$a^4b^2c^5 \times a^3b^4c^4$	=	=

Complete this statement: When multiplying powers with the same base