

Name: _____

Date: _____

Pd: _____

Exponents- Mixed (NO CALCULATOR)

Simplify each. Write all answers in standard form.		
3^4	4^{-3}	6^0
$(-2)^4$	$\frac{1}{5^{-2}}$	-2^4
Simplify each. Write all answers in exponential. All answers should contain positive exponents.		
$(3^2)(3^4)$	$(5^3)(5^{-4})$	$\frac{5^5}{5^2}$
$\frac{6^7}{6^9}$	$(5^{-2})^2$	$(2^3)^2$
$(6^2)(6^6)$	$\frac{7^{12}}{7^8}$	$(10^3)^5$
$(7^{-3})(7^{-4})$	$\frac{4^{-3}}{4^{-5}}$	$\frac{4^6 \cdot 4^3}{4^{-5}}$

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Exponents- Mixed (NO CALCULATOR)

Simplify each. Write all answers in standard form.		
3^4 81	4^{-3} $\frac{1}{64}$	6^0 1
$(-2)^4$ 16	$\frac{1}{5^{-2}}$ 25	-2^4 -16
Simplify each. Write all answers in exponential. All answers should contain positive exponents.		
$(3^2)(3^4)$ 3^6	$(5^3)(5^{-4})$ $1/5$	$\frac{5^5}{5^2}$ 5^3
$\frac{6^7}{6^9}$ $1/36$	$(5^{-2})^2$ $1/5^4$	$(2^3)^2$ 2^6
$(6^2)(6^6)$ 6^8	$\frac{7^{12}}{7^8}$ $7^{12-8} = 7^4$	$(10^3)^5$ 10^{15}
$(7^{-3})(7^{-4})$ $1/7^7$	$\frac{4^{-3}}{4^{-5}}$ 4^2	$\frac{4^6 \cdot 4^3}{4^{-5}}$ 4^{14}