

Name: _____

Date: _____ Score: _____

Exponent Rules Review Worksheet

Simplify each of the following

1 $(2p^2q)(2pq^2)$

2 $(6x^2y^4)^2$

3 $(4x^2y^4)^2$

4 $\frac{9a^3b^6}{-3ab^2}$

5 $(-2p^4)^5$

6 $\frac{ab^7}{a^3b^4}$

7 $(2^0 \cdot x^{-4})^2$

8 $\frac{x^{12}y^{-3}}{x^5y^5}$

9 $\frac{(4x^3) \cdot (x^2)^2}{8x^{10}}$

10 $\left(\frac{4c^{-6}}{8d^0}\right)^3$

11 $\left(\frac{6a^{13}b^5c^{2 \cdot 0}}{2 \cdot 3^2}\right)^0$

12 $\frac{-4x^3}{y^{-4}}$

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Answers

$\boxed{1} (2p^2q)(2pq^2)$ $4p^3q^3$	$\boxed{2} (6x^2y^4)^2$ $36x^4y^8$	$\boxed{3} (4x^2y^4)^2$ $16x^4y^8$
$\boxed{4} \frac{9a^3b^6}{-3ab^2}$ $-3a^2b^4$	$\boxed{5} (-2p^4)^5$ $-32p^{20}$	$\boxed{6} \frac{ab^7}{a^3b^4}$ $a^{-2}b^3$
$\boxed{7} (2^0 \cdot x^{-4})^2$ x^{-8}	$\boxed{8} \frac{x^{12}y^{-3}}{x^5y^5}$ x^7y^{-8}	$\boxed{9} \frac{(4x^3) \cdot (x^2)^2}{8x^{10}}$ $\frac{1}{2x^3}$
$\boxed{10} \left(\frac{4c^{-6}}{8d^0}\right)^3$ $\frac{1}{8c^{18}}$	$\boxed{11} \left(\frac{6a^{13}b^5c^2}{2 \cdot 3^2}\right)^0$ 1	$\boxed{12} \frac{-4x^3}{y^{-4}}$ $-4x^3y^4$