

Chapter 8 Exponent Quiz REVIEW

Name:

KEY

1. Simplify $4s^{-8}t$	Solution $\frac{4t}{s^8}$
2. Simplify $(-10)^0$	Solution 1
3. Simplify $5x^9 \cdot 6x^{-8}$	Solution $30x$
4. Simplify $4x^{-10} \cdot 6x^6$	Solution $\frac{24}{x^4}$
5. Simplify $(a^4)^{10}$	Solution a^{40}
6. Simplify $(3g^2)^{-5}$	Solution $\frac{1}{3^5 g^{10}}$
7. Simplify $(4m^5)^{-6} \cdot (mn)^8$	Solution $\frac{n^8}{4^6 m^{22}}$

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8. Simplify $\frac{10^7}{10^3}$	Solution <u>10^4</u>
9. Simplify $\frac{a^{10}b}{a^6b^2}$	Solution <u>$\frac{a^4}{b}$</u>
10. Simplify $\frac{b^9}{b^3}$	Solution <u>b^6</u>
11. Simplify $\left(\frac{4}{5}\right)^{-3}$	Solution <u>$\frac{5^3}{4^3}$</u>