

Name : _____

Score : _____

Teacher : _____

Date : _____

Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $w^5 \cdot w^2 \cdot w^3$

8) $\left(\frac{1}{s}\right)^5 \cdot \left(\frac{1}{s}\right)^3 \cdot \left(\frac{1}{s}\right)^6$

2) $r \cdot r^{-6}$

9) $7d^2 \cdot 8d^{-4}y^6$

3) $2d \cdot 5d^{-5}$

10) $w \cdot w^6$

4) $\left(\frac{8}{9}\right)^2 \cdot \left(\frac{8}{9}\right)^3$

11) $\left(\frac{1}{5}\right)^2 \cdot \left(\frac{1}{5}\right)^6$

5) $3kb^{-6} \cdot 2k^{-3}b^3$

12) $2 \cdot 2^{-4}$

6) $2h^3 \cdot 3h^2 \cdot 8h^6$

13) $5y^6 \cdot 2y^{-5}$

7) $5g^3z^{-6} \cdot 9g^{-3}z^4$

14) $3h^3n^6 \cdot 6hn^2$



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Simplify. Your answer should contain only positive exponents.

$$\begin{array}{l} 1) \quad w^5 \cdot w^2 \cdot w^3 \\ w^{10} \end{array}$$

$$\begin{array}{l} 2) \quad r \cdot r^{-6} \\ \frac{1}{r^5} \end{array}$$

$$\begin{array}{l} 3) \quad 2d \cdot 5d^{-5} \\ \frac{10}{d^4} \end{array}$$

$$\begin{array}{l} 4) \quad \left(\frac{8}{9}\right)^2 \cdot \left(\frac{8}{9}\right)^3 \\ \left(\frac{8}{9}\right)^5 \end{array}$$

$$\begin{array}{l} 5) \quad 3kb^{-6} \cdot 2k^{-3}b^3 \\ \frac{6}{k^2b^3} \end{array}$$

$$\begin{array}{l} 6) \quad 2h^3 \cdot 3h^2 \cdot 8h^6 \\ 48h^{11} \end{array}$$

$$\begin{array}{l} 7) \quad 5g^3z^{-6} \cdot 9g^{-3}z^4 \\ \frac{45}{z^2} \end{array}$$

$$\begin{array}{l} 8) \quad \left(\frac{1}{s}\right)^5 \cdot \left(\frac{1}{s}\right)^3 \cdot \left(\frac{1}{s}\right)^6 \\ \left(\frac{1}{s}\right)^{14} \end{array}$$

$$\begin{array}{l} 9) \quad 7d^2 \cdot 8d^{-4}y^6 \\ \frac{56y^6}{d^2} \end{array}$$

$$\begin{array}{l} 10) \quad w \cdot w^6 \\ w^7 \end{array}$$

$$\begin{array}{l} 11) \quad \left(\frac{1}{5}\right)^2 \cdot \left(\frac{1}{5}\right)^6 \\ \left(\frac{1}{5}\right)^8 \end{array}$$

$$\begin{array}{l} 12) \quad 2 \cdot 2^{-4} \\ \frac{1}{2^3} \end{array}$$

$$\begin{array}{l} 13) \quad 5y^6 \cdot 2y^{-5} \\ 10y \end{array}$$

$$\begin{array}{l} 14) \quad 3h^3n^6 \cdot 6hn^2 \\ 18h^4n^8 \end{array}$$

