

Name : _____

Score : _____

Teacher : _____

Date : _____

Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $8 \cdot 8^{-2}$

8) $\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^4$

2) $r^5 n^{-3} \cdot 3r^{-4} n^6 \cdot 9rn^4$

9) $4y^6 \cdot 5y^{-2} \cdot 7y^{-4}$

3) $\left(\frac{1}{n}\right)^6 \cdot \left(\frac{1}{n}\right)^4 \cdot \left(\frac{1}{n}\right)^2$

10) $4h^6 \cdot 6h^{-2} w^4$

4) $b^4 \cdot b^6 \cdot b^3$

11) $9dh^5 \cdot 2d^4 h^2$

5) $9h \cdot 5h^2$

12) $6^{-3} \cdot 6^6$

6) $5n \cdot 4n^{-2}$

13) $g^4 c^6 \cdot 2g^3 c^5 \cdot 8gc^3$

7) $7d^4 \cdot 2d^6 c^5$

14) $8z^{-6} r^4 \cdot 5zr^{-3}$



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Exponents and Division

Simplify. Your answer should contain only positive exponents.

1) $\frac{7g^2}{9g^5b^6}$

7) $\frac{4^{-3}}{4}$

2) $\frac{6z}{5z^{-3}}$

8) $\frac{9g^3}{2g}$

3) $\frac{dc}{4d^5c^6}$

9) $\frac{r^4}{r^{-6}}$

4) $\frac{d}{d^{-5}}$

10) $\frac{5z^{-4}}{6z}$

5) $\frac{7zk^3}{3z^6k^2}$

11) $\frac{k}{k^3}$

6) $\frac{8r^6k^2}{4rk^3}$

12) $\frac{3^2}{3^4}$

