

Name : _____

Score : _____

Teacher : _____

Date : _____

Exponents and Multiplication **A**

Simplify. Your answer should contain only positive exponents.

1) $y \cdot y^6$

8) $3c^6w^4 \cdot 8cw^2$

2) $3z \cdot 6z^6$

9) $5yk^2 \cdot 3y^5k^4$

3) $5k^6 \cdot 7k^3$

10) $\left(\frac{1}{c}\right)^6 \cdot \left(\frac{1}{c}\right)^5 \cdot \left(\frac{1}{c}\right)^4$

4) $5 \cdot 5^4$

11) $y^4n^6 \cdot 6y^5n^2 \cdot 7yn^5$

5) $\left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right)^6$

12) $4^6 \cdot 4^2$

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

13) $\left(\frac{3}{7}\right)^6 \cdot \left(\frac{3}{7}\right)^3 \cdot \left(\frac{3}{7}\right)^4$

7) $r^6 \cdot r^4 \cdot r^2$

14) $\left(\frac{1}{9}\right)^2 \cdot \left(\frac{1}{9}\right)^5$



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Exponents and Division *A*

Simplify. Your answer should contain only positive exponents.

1) $\frac{7r^6}{8r^3s^4}$

7) $\frac{r^5}{r^4}$

2) $\frac{7g^5d^3}{5g^2d^4}$

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

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

9) $\frac{8k^6}{3k^5}$

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

10) $\frac{2c}{7c^5}$

5) $\frac{5kr^4}{9k^5r^2}$

11) $\frac{2b^4r^6}{6br^2}$

6) $\frac{hk}{4h^3k^2}$

12) $\frac{h}{h^4}$

