

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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### Exponents and Multiplication

**Simplify. Your answer should contain only positive exponents.**

1)  $9^4 \cdot 9^3$

8)  $\left(\frac{1}{k}\right)^3 \cdot \left(\frac{1}{k}\right)^4 \cdot \left(\frac{1}{k}\right)^5$

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

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

3)  $r^3s^{-2} \cdot 8r^{-3}s^4 \cdot 4rs^5$

10)  $9 \cdot 9^{-6}$

4)  $7y \cdot 2y^2$

11)  $9b \cdot 6b^3$

5)  $\left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^3 \cdot \left(\frac{1}{5}\right)^2$

12)  $9s^4 \cdot 7s^{-2}$

6)  $5d^3n^6 \cdot 4dn^4$

13)  $2d^3c^6 \cdot 8d^5c^2$

7)  $8nr^4 \cdot 9n^{-6}r^3$

14)  $s^2 \cdot s^5$

