Name : _____ Score : _____

Teacher : _____ Date : _____

Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $9^{-4} \cdot 9^{3}$

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

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

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

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

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

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

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

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

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

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

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

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

14) $s^{2} \cdot s^{6}$

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