Worksheet 4.1 Product Rule of Exponents Name : _____ No. __

Rule no. 1 : $a^m \times a^n = a^{m+n}$

Simplify. Your answer should contain only positive exponents.

1) $4^2 \cdot 4^2 =$ _____

2) $4 \cdot 4^2 =$ _____

3) $3^2 \cdot 3^2 =$ _____

4) $2 \cdot 2^2 \cdot 2^2 =$ _____

5) $2n^4 \cdot 5n^4 =$ _____

6) $6r \cdot 5r^2 =$ _____

7) $2n^4 \cdot 6n^4$ _____

8) $6k^2 \cdot k$ _____

9) $5b^2 \cdot 8b =$ _____

10) $4x^2 \cdot 3x =$ _____

11) $6x \cdot 2x^2 =$ _____

12) $6x \cdot 6x^3 =$ _____

LIVEWORKSHEETS