

Rule no. 1 : $a^m \times a^n = a^{m+n}$ **Simplify. Your answer should contain only positive exponents.**

1) $4^2 \cdot 4^2 = \frac{\boxed{} \boxed{}}{\boxed{} \boxed{}}$

2) $4 \cdot 4^2 = \frac{\boxed{} \boxed{}}{\boxed{} \boxed{}}$

3) $3^2 \cdot 3^2 = \frac{\boxed{} \boxed{}}{\boxed{} \boxed{}}$

4) $2 \cdot 2^2 \cdot 2^2 = \frac{\boxed{} \boxed{}}{\boxed{} \boxed{}}$

5) $2n^4 \cdot 5n^4 = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{}}$

6) $6r \cdot 5r^2 = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{}}$

7) $2n^4 \cdot 6n^4 = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{}}$

8) $6k^2 \cdot k = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{}}$

9) $5b^2 \cdot 8b = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{}}$

10) $4x^2 \cdot 3x = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{}}$

11) $6x \cdot 2x^2 = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{}}$

12) $6x \cdot 6x^3 = \frac{\boxed{} \boxed{} \boxed{}}{\boxed{} \boxed{}}$