

2.2 Exponent Properties (Integers)

Date _____ Period _____

Simplify.

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

2) $2^4 \cdot 2^2$

3) $4 \cdot 4^4$

4) $(3^3)^4$

5) 4^4

6) 2^4

Simplify. Your answer should contain only positive exponents.

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

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

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

Simplify.

10) $2^4 \cdot 2^3$

11) $2 \cdot (2^3)^2$

Simplify. Your answer should contain only positive exponents.

12) $\frac{2^3 \cdot 2^2}{2^3}$

13) $\frac{2}{(2^3 \cdot 2^3)^4}$

Simplify.

14) $4n^4 \cdot 2n \cdot 2n$

15) $2r \cdot r$

16) $(2n^4)^3 \cdot (n^3)^4$

17) $(2v^3)^2 \cdot v^2$

Simplify. Your answer should contain only positive exponents.

18) $\frac{(2p^3 \cdot p)^4}{2p^4}$

19) $\frac{2b}{b \cdot 2b^2 \cdot (2b^4)^4}$