

Name _____

**Practice
2-4**

Exponents

Write using exponents.

1. $3 \times 3 \times 3 \times 3$ _____

2. 364×364 _____

3. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$ _____

4. $13 \times 13 \times 13$ _____

5. $8 \times 8 \times 8 \times 7 \times 7$ _____

6. 49 _____

Write in expanded form.

7. 10^4 _____

8. 6^5 _____

9. 3^2 _____

10. 7^3 _____

11. 12^4 _____

12. 5 cubed _____

Write in standard form.

13. 5^4 _____

14. 2^6 _____

15. 11 squared _____

16. 10^7 _____

17. 12^2 _____

18. 6 cubed _____

Compare using $<$, $>$, or $=$.

19. 4^2 ○ 2^4

20. 4^3 ○ 3^4

21. 5^8 ○ 5^9

22. 3^8 ○ 3×8

23. 2^5 ○ 5^2

24. 10^3 ○ $10 + 10 + 10$

25. 5^3 ○ $5 \times 5 \times 5$

26. 7^3 ○ 3^7

27. 10^4 ○ 4×10

For each number in exponential notation, identify the base, exponent, and power. Use a calculator to write each number in standard form.

28. A typical American kid watches about 18^4 television advertisements between birth and high school graduation.

base _____

exponent _____

power _____

standard form _____

29. The highest point in Kentucky is Black Mountain. Its height is about 2^{12} feet.

base _____

exponent _____

power _____

standard form _____