

SKILL 4: Practice**Write in exponential form.**

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

2. 53×53 _____

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

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

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

6. 17×17 _____

Write in expanded form.

7. 10^4 _____

8. 6^5 _____

9. 3^2 _____

10. 7^3 _____

11. 12^4 _____

12. 5^6 _____

Write in standard form.

13. 5^4 _____

14. 2^6 _____

15. 10^7 _____

16. 11^2 _____

17. 12^2 _____

18. 6^3 _____

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

19. 7^3 \bigcirc $7 + 7 + 7$

20. 3^4 \bigcirc 4^3

21. 4×10 \bigcirc 10^4

Solve.

22. The highest point in Kentucky is Black Mountain. Its height is about 2^{12} feet. About how high is Black Mountain? _____

23. Celeste had 3¢ on Day 1. She had three times that much on Day 2. On Day 3 she had three times as much as she had on Day 2. If she continues this pattern, on what day will she have 2,187¢? _____

24. Which is 4^3 in standard form?

Skill 4

A 12

C 64

B 7

D 4

25. Which shows a prime factorization?

Skill 3

F $2 \times 2 \times 3 \times 5$ H $3 \times 4 \times 5$ G $2 \times 3 \times 5 \times 6$ J 9×12