

It is expected that you spend 30 FOCUSED, UNINTERRUPTED minutes on this homework. Should you reach that time limit and the homework is not completed, an adult at home may sign your work, showing me that you worked hard until the time limit. You will earn 2 points for a completed homework OR a signature.

Write the power in words.

1. 3^8 2. 9^4 3. y^5

Write the product as a power.

4. $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$ 5. $13 \cdot 13 \cdot 13$ 6. $6 \cdot 6 \cdot 6 \cdot 6 \cdot 6$

7. $1 \cdot 1 \cdot 1 \cdot 1$

8. $a \cdot a \cdot a \cdot a \cdot a \cdot a \cdot a \cdot a$

9. $1 \cdot 1 \cdot 1 \cdot 1 \cdot 1$

Evaluate the power.

10. 2^5 11. 7^4 12. 10^3
 13. 3^5 14. 6^3 15. 1^4



For use with pages 13-17

Practice

Name _____

Date _____

Evaluate the expression for the given value of the variable.

- 16. y^2 when $y = 12$
- 17. b^5 when $b = 4$
- 18. w^3 when $w = 15$
- 19. v^6 when $v = 3$
- 20. s^4 when $s = 10$
- 21. m^8 when $m = 2$

Write the number as a power.

- 22. 25
- 23. 121
- 24. 64

25. Write each number in the pattern as a power: 1, 4, 9, 16, 25, ...

26. Computers store information in units called bits and bytes. A kilobyte is 2^{10} bytes. Evaluate the power to find the number of bytes in a kilobyte.

27. In the metric system of weight, there are 1000 milligrams in one gram. Write the number of milligrams in one gram as a power.

28. The solid figure below is called a cube and is made of blocks that are all the same size. How many blocks make up the cube? Write the number of blocks that make up the cube as a power.

