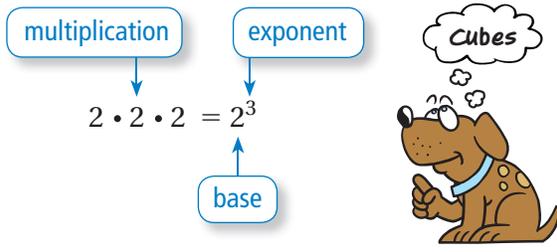


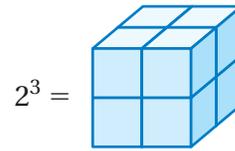
REVIEW: Cubes

Name _____

Key Concept and Vocabulary



Visual Model



Skill Examples

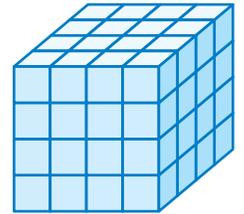
- $2^3 = 2 \cdot 2 \cdot 2 = 8$
- $5^3 = 5 \cdot 5 \cdot 5 = 125$
- $7^3 = 7 \cdot 7 \cdot 7 = 343$
- $9^3 = 9 \cdot 9 \cdot 9 = 729$
- $20^3 = 20 \cdot 20 \cdot 20 = 8000$

Application Example

6. How many small cubes are in the stack?

$$4^3 = 4 \cdot 4 \cdot 4 = 64$$

- 64 small cubes are in the stack.



PRACTICE MAKES PURR-FECT™



Check your answers at BigIdeasMath.com.

Find the value.

7. $6^3 =$ 216

8. $3^3 =$ 27

9. $8^3 =$ 512

10. $10^3 =$ 1000

11. $12^3 =$ 1728

12. $15^3 =$ 3375

Use an exponent to rewrite the expression.

13. $16 \cdot 16 \cdot 16 =$ 16^3

14. $11 \cdot 11 \cdot 11 =$ 11^3

15. $25 \cdot 25 \cdot 25 =$ 25^3

Evaluate the expression when $x = 3$.

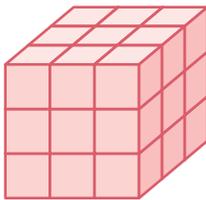
16. $x^3 + 1$ 28

17. $2x^3$ 54

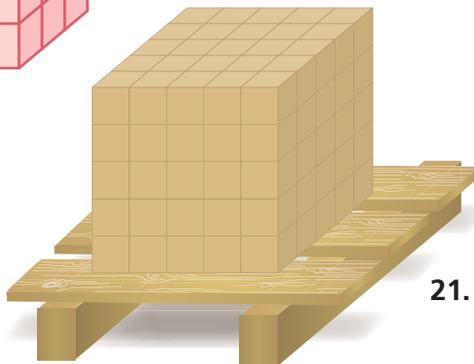
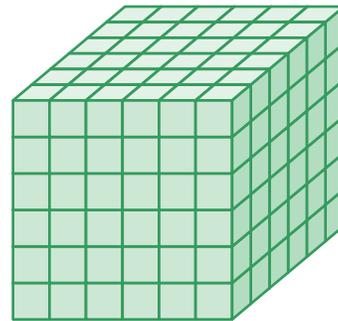
18. $6x - x^3$ -9

How many small cubes are in the stack?

19. 27



20. 216



21. **SHIPPING** How many boxes are on the pallet?

125 boxes