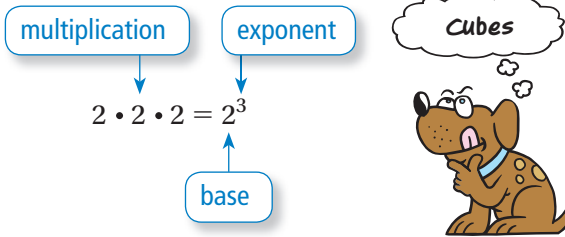
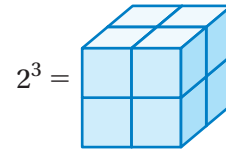


Key Concept and Vocabulary



Visual Model



Skill Examples

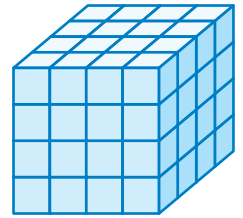
- $2^3 = 2 \cdot 2 \cdot 2 = 8$
- $5^3 = 5 \cdot 5 \cdot 5 = 125$
- $7^3 = 7 \cdot 7 \cdot 7 = 343$
- $9^3 = 9 \cdot 9 \cdot 9 = 729$
- $20^3 = 20 \cdot 20 \cdot 20 = 8000$

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.



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Check your answers at BigIdeasMath.com.

Find the value.

- $6^3 =$ _____
- $3^3 =$ _____
- $8^3 =$ _____
- $10^3 =$ _____
- $12^3 =$ _____
- $15^3 =$ _____

Use an exponent to rewrite the expression.

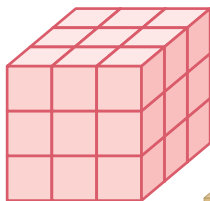
- $16 \cdot 16 \cdot 16 =$ _____
- $11 \cdot 11 \cdot 11 =$ _____
- $25 \cdot 25 \cdot 25 =$ _____

Evaluate the expression when $x = 3$.

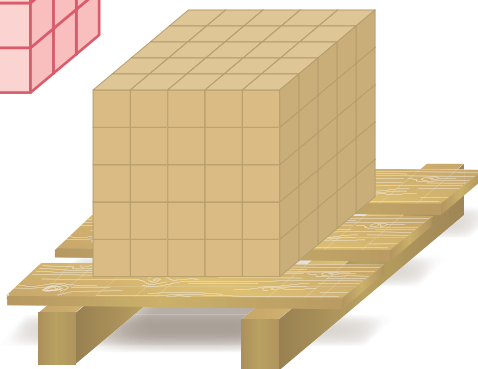
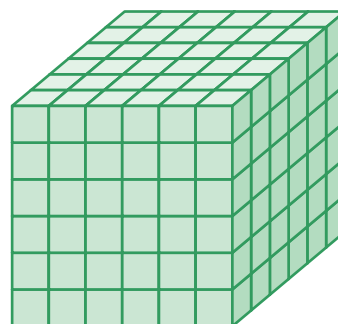
- $x^3 + 1 =$ _____
- $2x^3 =$ _____
- $x^3 - 6x =$ _____

How many small cubes are in the stack?

19. _____



20. _____



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