

# Max's Cube Number Challenge

*Learning objective: To recognise and calculate cube numbers up to 10 cubed ( $10^3$ ).*

Use these flashcards to test your knowledge of cube numbers. Max the monkey thinks these are the best puzzles ever! Read the front, try to calculate the answer, then check the back.

**What is a cube number?**

A cube number is the result of multiplying a whole number by itself twice (e.g.,  $2 \times 2 \times 2$ ).

**What does the small '3' symbol mean in maths?**

It means the number is cubed, which is the same as multiplying it by itself three times.

**What is 1 cubed ( $1^3$ )?**

$$1 \times 1 \times 1 = 1$$

**What is 2 cubed ( $2^3$ )?**

$$2 \times 2 \times 2 = 8$$

**What is 3 cubed ( $3^3$ )?**

$$3 \times 3 \times 3 = 27$$

**What is 4 cubed ( $4^3$ )?**

$$4 \times 4 \times 4 = 64$$

**What is 5 cubed ( $5^3$ )?**

$$5 \times 5 \times 5 = 125$$

**What is 6 cubed ( $6^3$ )?**

$$6 \times 6 \times 6 = 216$$

**What is 10 cubed ( $10^3$ )?**

$$10 \times 10 \times 10 = 1,000$$

**If a cube has a side length of 3cm, what is its volume?**

$$3 \times 3 \times 3 = 27\text{cm}^3$$

**True or False: 9 is a cube number.**

False. 9 is a square number ( $3 \times 3$ ). The nearest cube number is 8 ( $2 \times 2 \times 2$ ).

**Max bought 4 boxes, each containing 4 packs of 4 pencils. How many pencils does he have in total?**

$$64 \text{ pencils } (4 \times 4 \times 4 = 64).$$