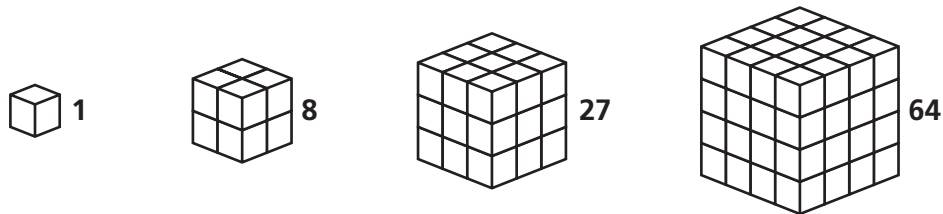


# Cube numbers

## Explanation

Some numbers are known as cube numbers, such as **1**, **8**, **27** and **64**. Cube numbers are called this as they can be made from this number of small cubes.



Cube numbers are the result of multiplying three of the same number together, like this.

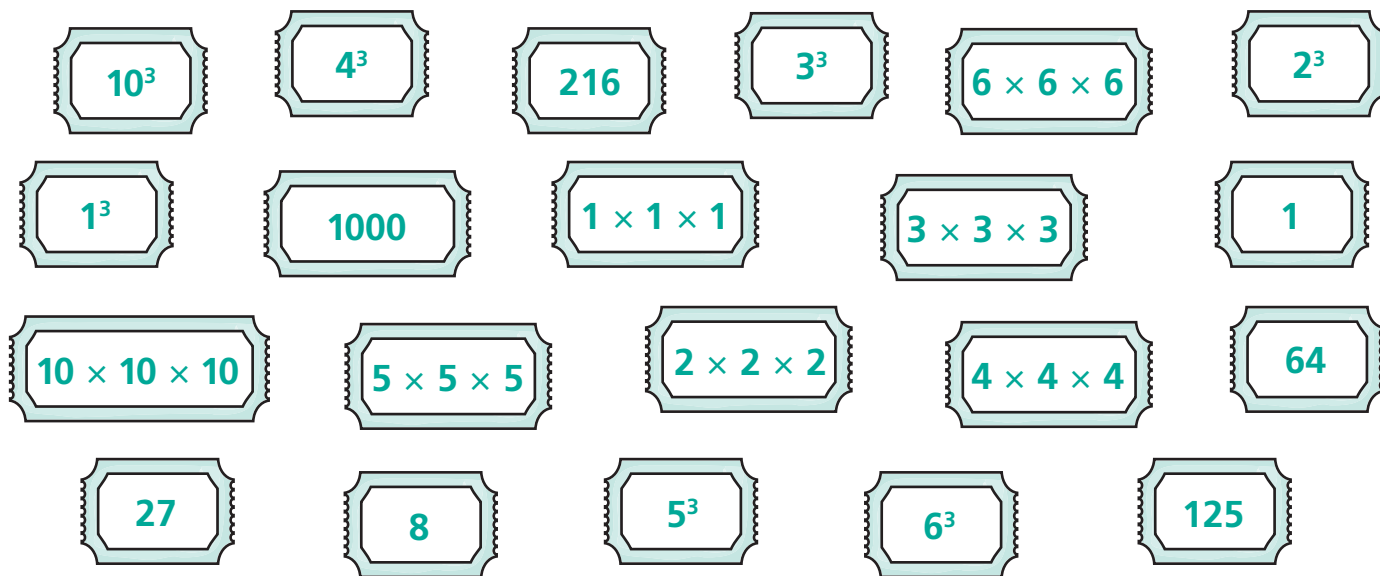
**Example**  $1 \times 1 \times 1 = 1$ ,  $2 \times 2 \times 2 = 8$ ,  $3 \times 3 \times 3 = 27$ ,  $4 \times 4 \times 4 = 64$ ,  $5 \times 5 \times 5 = 125 \dots$

Use a small raised <sup>3</sup> to mean cubed.

**Example**  $3^3$  means **3 cubed** or  $3 \times 3 \times 3$ , which equals **27**.

## Activities

**1** Join any tickets that show the same amount.



**2** Write the answers to the following questions.

a  $1^3 =$  1

b 3<sup>3</sup> = 27

c 6<sup>3</sup> = 216

d  $10^3 =$  1000

e  $20^3 =$  8000

f  $30^3 =$  27000

**3** Calculate the following using appropriate multiplication methods.

a  $7^3 = 7 \times 7 \times 7 = 49 \times 7 =$  343

b  $9^3 = 9 \times 9 \times 9 = 81 \times 9 =$  729